THE CHEMIST AND DRUGGIST

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THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

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TO ADVERTISERS.

WE are desired by our publisher to remind advertisers that the summer number of THE CHEMIST AND DRUGGIST will be issued in the week ending Saturday, July 28. The number will be produced in bright and original style, the illuminated cover being a fresh design. The publisher is now booking orders for the insertion of circulars and price-lists in the issue. This will be the last occasion on which we can accept such insets this year, and this early notice does not give too much time for advertisers to put their ideas into shape. Terms for the insertion of circulars, and particulars as to the size, &c., they should be printed, can be obtained from the publisher on application.

POSTCARD COMPETITION—JULY.

ONE GUINEA is offered for the best quotation from any eminent writer—British or foreign, ancient or modern—not exceeding 50 words, suitable for use in advertising any of the articles usually sold by chemists. The original need not necessarily have the medicine, &c., in contemplation. Indeed, a quotation cleverly diverted from its original meaning to the purposes of the advertisement will be in many cases preferred. Postcards for this competition must reach us during the month of July. All subscribers, their families, and employés are eligible to compete.

Summary.

WE complete our forty-fourth volume with this issue. A very full index accompanies every copy. Chemists intending to bind the volume must take care of this index, as we shall not be able to supply extra copies of it.

FIVE cases of carbolic-acid poisoning are reported on p. 881.

AN account of a new process for the decoration of glass by means of aluminium will be found on p. 883.

SOME particulars of last year's chemical explosions, gathered from the annual report of her Majesty's Inspectors, are given in an article on p. 894.

A NAPLES chemist, referring to the law prohibiting the sale of secret medicines in Italy, makes an important suggestion to British proprietors of patent medicines on p. 903.

THE organiser of the Patent-medicine Vendors' Association (Limited) writes in defence of the action taken by that Association and of the circular they have lately issued (p. 903).

AN interesting report on the French Pharmacy Bill has lately been issued by a Committee of the Senate appointed to examine it. We comment on the principal features of this report on p. 893.

A FIRM of dealers have been fined 10*l.* under the Merchandise Marks Act, for selling German clinical thermometers marked "½ min.," but which did not register until 2 or 2½ minutes (p. 881).

OUR Paris correspondent gives an amusing report of the annual meeting of the Association of French Pharmacists. The cutting of proprietary medicines was evidently the burning question among these *savants* (p. 882).

THE last ordinary meeting of the session of the Chemical Society is reported on page 885. The substance of six interesting papers is given, including an analysis of old Scotch iron, new views about yeast, new views on the metallurgy of lead, the decomposition of tartaric acid, and an analysis of Cheltenham salts by Professor Thorpe.

AMONG new companies the registration of which we report this week is that of "Sunlight Soap"—Lever Brothers (Limited)—with a capital of 1,500,000*l.* Among chemists' companies will be found Parke's Drug Stores (Limited), Foreign Chemists (Limited) (taking over the businesses of Wilcox & Co. and Jozeau), and the Metropolitan Drug Company (Limited), to which is transferred the business of the Fernando Drug Company (p. 890).

THE House of Commons Committee has agreed to the additional 6*d.* per proof gallon duty on spirits. A gallant attempt to exempt from the incidence of this duty spirit used in the manufacture of medicines was made by Mr. Grant Lawson, M.P. for the Malton division of Yorkshire, Mr. Butcher, M.P. for York City, and Mr. A. C. Morton, M.P. for Peterborough. Mr. Charles Townsend, M.P. for Bristol, spoke in support of the tax, and Sir William Harcourt strongly deprecated a division, the motion to relieve chemists being ultimately negatived without a division. We print a full report of the debate on p. 895.

LEGAL reports commence on page 886. The Apollinaris Company get an injunction against a theatre proprietor requiring him to desist from publishing a statement on his programmes intimating that another mineral water is the only one supplied at certain stations and hotels; Messrs. Morris Little & Co. and Pearson have settled their sheep-dip dispute; an apprentice in Ireland claimed damages against Messrs. William Harrington & Sons, of Cork, for failing to give him a certificate acceptable to the Irish Pharmaceutical Society. The case was settled without contest in favour of the defendants, who, however, contributed towards the plaintiff's expenses. A suit by the British and Foreign Optical Company against a Brighton chemist, tried in the Lord Mayor's Court and decided against the Company, presents many points of interest in regard to the acceptance of agencies by chemists. Messrs. Keating & Co. obtain another injunction against a chemist for sale of an insect-powder professedly as theirs.

English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Robbing a Chemist.

The Barton-on-Humber Magistrates have sentenced a confectioner and general dealer named Clapson to three months' hard labour for receiving 1 lb. of tobacco and a box containing mustard, the property of Mr. C. Crowder, chemist, George Street, Barton, knowing the same to have been stolen. Mr. Crowder in his evidence stated that he had missed the articles, and suspicion fell upon a youth named Burnett, who was an apprentice with him. Burnett was called to give evidence, and he stated that Clapson asked him to take 1 lb. of tobacco to his house, which he did, Clapson promising him money, which he had not yet received. He also took the box of mustard to Clapson. In reply to the Bench, Burnett said he had received several sums of money for taking goods like this, and these transactions had been going on for several months. The prisoner's defence was that he only borrowed the mustard and intended paying it back, but he pleaded guilty in regard to the tobacco. The Chairman, in passing sentence, characterised the offence as a most serious one.

Chemists at Cricket.

A cricket-match was played on June 19, between the students at Mr. Clayton's "Northern School of Pharmacy" representing Lancashire *v.* Yorkshire with the rest of England. The result was a win for the Tykes by one run, due mainly to the batting of Fell, who made 28 (not out) out of 49.

The Chemist's Medicine and the Doctor's Evidence.

At South Shields, on June 18, an inquest was held respecting the death of a child named Robert Banks, aged 2½ years. On the previous Wednesday the child became suddenly ill, and was taken to a chemist in the Market Place, where a soothing-medicine and a liniment were handed to the mother. The medicine was to be administered in small doses. The infant progressed favourably up to Saturday evening, when it had a relapse, and gradually got weaker and died. Dr. Dalziel was called to the child on the Saturday evening, but on his arrival it was dead. The doctor, in reply to the Coroner, said he judged that the child had been suffering from scarlet fever. If the child had been taken to a qualified medical man at the outset, it probably would have survived the attack. A verdict in accordance with the medical testimony was returned.

A Trumpery Case.

At the Devon Assizes, on June 19, before Mr. Justice Wright, Dugal Pearson, a respectably dressed young man, was indicted for stealing four bottles of stout, value 8*d.*, the property of Charles B. Shuker, chemist and grocer, at Plympton, on April 23. Mr. Bodilly prosecuted. Mr. Bridham Wippell (instructed by Messrs. Rundle & Martyn) defended. James May, in prosecutor's employ, deposed to seeing prisoner enter the store at the back of the shop, where wines, spirits, &c., were kept, and take from the shelf a bottle, which he put in his pocket. Henry Stevens, manager of the grocery department, said he pencil-marked twenty bottles of stout across the label. Whilst prisoner was at dinner, witness went to his locker, where he found one of the pencil-marked bottles. In cross-examination witness said prisoner was in the habit of purchasing goods at the shop. Mr. Bright and P.C. Champion also gave evidence. Mr. Wippell, in defence, said it was a trumpery case, and there was no felonious intent. The bottle which prisoner took was merely in the place of two bottles which he returned the same morning, he having purchased them on the Saturday for his wife, who was ill. Mr. Bodilly rose to reply, but his Lordship said it was merely discussing "two-pennyworth of flat beer." Mr. Bodilly only wished to explain that prisoner himself elected to be tried by a jury. Addressing the jury, the Judge said it would be well if the law was still existing which declared anything under 1*s.* not to be a felony. The jury acquitted the prisoner.

Fire.

Late on the evening of June 21 a fire was discovered to have broken out on the premises of the Ruddolph Laboratory Company (Limited), 29 London Road, Reading. The outbreak occurred amongst a stock of American wood wool, and empty packing-cases.

The Half-holiday.

The chemists of Gainsborough close at 1.30 P.M. on Wednesdays. Our recent statement that this course was in contemplation was somewhat belated.

Drug-contracts.

Messrs. Moulder & Arnold have secured the contract for the supply of sulphur at 2*d.* per lb. and of arrowroot at 8*d.* per lb. to Cirencester Union for the ensuing quarter. Messrs. J. Smith & Son's tender for the supply of linseed meal at 16*s.* per cwt. was accepted.

The Wolverhampton Board of Guardians have accepted the tender of Messrs. Wyleys (Limited) for the supply of drugs to the Workhouse, the amount being 39*l.* 15*s.* 8*d.* Mr. G. H. Kitson has secured the contract for the supply of carbolic soap to the Workhouse and Cottage Homes at 19*s.* per cwt.

The Select Committee on Adulteration.—Meeting of the London Chamber of Commerce.

Sir Albert Rollit, M.P., presided on Tuesday at a meeting summoned by the London Chamber of Commerce to consider the course to be taken in regard to the presentation of evidence before the Select Committee of the House of Commons on adulteration. A resolution appointing a committee to deal with the matter was moved by Mr. J. Innes Rogers, who suggested a number of reforms in the existing law; and seconded by Mr. C. Umney, who contended, on behalf of druggists, that there ought to be a separate measure for dealing with drugs from that applying to food. This was an opinion which had long been held by druggists, and he hoped the Chamber would see its way to advocating a change of the kind. It was most desirable that there should be a central laboratory under the control of Government to deal with questions of adulteration. Public analysts at present often lacked the experience and scientific knowledge necessary in dealing with many of the problems presented to them. He frequently saw on drug-brokers' boards in Mincing Lane exposed for sale drugs which they knew, or ought to know, were not what they professed them to be. He referred also to the gross adulteration of ginger which went on in connection with the mineral-water trade, the ginger being first deprived of its aromatic properties, and then re-dried and ground up with true ginger. Mr. Hahnemann Epps considered that the preparation of evidence should be left to the various trade sections of the Chamber; and Mr. Preston supported this view, and said as wholesale druggists they were aghast at the 40 and 70 per cent. adulteration which their friends spoke of in connection with coffee and other products. In one case in which he had been concerned, the adulteration had been one two-thousandth per cent., and Dr. Stevenson was ready to prove that if a man drank six bottles of lemonade daily it would be twenty years before he took a poisonous dose of lead into his system. Even then it was only on a technical point that the magistrates could be got to dismiss the case. Dr. Bernard Dyer, on behalf of the Society of Public Analysts, suggested that a Government laboratory should be established and controlled by a joint board consisting of the chief chemical officer of the Inland Revenue, a person nominated by the General Medical Council, and analysts nominated by the Local Government Board and the Board of Agriculture. Finally the resolution was adopted, and the following committee appointed:—Messrs. Blackwell, Umney, Preston, Dyer, Epps, Lamey, Laine, Ivey, Lovell, Denny, Fitch, W. J. Thompson, Dickson, Harvest, Walton, Forster, Rogers, Matterson, Van den Bergh, Fry, Otto Hehner, Ling, Rose and Hudson.

London County Council Contracts.

The following tenders have been accepted by the London County Council for the ensuing year:—For oils: Messrs. Colthurst & Harding (castor); Craig and Rose (cylinder and kerosine); Fenner & Co. (gas-engine); Pilcher & Sons (lard, neatsfoot, and olive); J. L. Wade & Co. (machinery and tallow); Livett, Frank & Co. (colza); Pinchin, Johnson & Co. (machinery); Palmer & Co. (tallow, creasote and sperm). For disinfectants: Messrs. G. T. Cox & Sons; Adcock, Easton & Co.; Middleton Brothers; Sanitas Company (Limited). Between twenty and thirty contracts were also accepted for the supply of paints, colours, varnishes, and oilman's sundries.

Carbolic-poisonings.

Catherine Beatrice Barnes (19), late of Newmarket Road, Brighton, who had previously been in service, left her family three weeks ago, saying she was going to another place. On Monday night last week her brother saw her in Western Road, and, following her home, tried to get her to come back. He was unsuccessful, but left with her 2*s*., and said he should call for her the next evening. On the Tuesday he and his mother had letters stating that when they received them she would be dead. The mother went to 49 Chesterfield Street, and found the deceased had taken carbolic acid. She died a few minutes after admission to the hospital.

Fanny Parker, a single woman, of 78 Fleet Road, Hampstead, died on Thursday last week from carbolic-acid poisoning. She was supposed to have drunk some of the acid from a bottle supplied by the Vestry for sanitary purposes.

Henry Moses Almond (50), a joiner, living at 94 Pocket Nook Street, St. Helens, committed suicide on Sunday last by drinking carbolic acid. Deceased had not worked for about twelve months on account of failing eyesight. The deceased man, after having some sharp words with his wife, went upstairs, and shortly afterwards she heard a noise as of the breaking of a bottle. On going upstairs she found her husband lying on the floor, the bottle which had contained the acid lying in pieces beside him. The man was beyond medical assistance, and died without speaking to anyone.

On Friday, last week, a police-constable named William Shaw, stationed at Old Swan, Liverpool, took by mistake a drink out of a gallon jar containing carbolic acid. Emetics were administered, but the unfortunate man died at the station-house a few hours afterwards. The deceased was 25 years of age, and unmarried.

George Glover (28), hawker, of Birmingham, having been very short of work, and being intemperate in his habits, took carbolic acid last week. He died a quarter of an hour after admission to the General Hospital.

John Waters, a clerk, 29 years of age, who lived at 58 Tunnel Road, Liverpool, had been in a despondent state in consequence of some complaint he had in his leg, which troubled him a great deal. On Saturday evening last he was found in a dying condition in a field off Woolton Road, Wavertree, and there was a bottle containing carbolic acid lying by his side. Before the police arrived the man had expired. The deceased had purchased 3*d*. worth of carbolic acid, and had swallowed about sixteen teaspoonfuls of the poison.

A blacksmith named John Forsyth Gunn, 48 years of age, died in Edinburgh Royal Infirmary on Saturday night last from the effects of carbolic acid, a quantity of which he had accidentally swallowed in his own house at 27 North Richmond Street.

The Shop-hours Act, 1892.

A Parliamentary return shows that the total number of inspectors appointed by the local authorities under the Shop-hours Act, 1892, since February 7, 1893, has been 180—namely, England and Wales, 130; Scotland, 44; and Ireland, 6. Of this number county councils in England and Wales have appointed 66, and town councils 64. Among the former we find that the Warwick County Council have appointed 18, Oxford 13, West Riding of Yorkshire 9, Leicester 8, Chester, Huntingdon, and London 5 each, and Middlesex 3. Among the town councils Leicester heads the list with 6, Cardiff and Oldham have 5 each, Eastbourne has 4, Warrington has 3, Bolton, Bury (Lancashire), Northampton, and Nottingham have 2 each, and the other town councils on the list for England and Wales have appointed 1 each. As regards Scotland, it is shown that the Glasgow Town Council have appointed 10 inspectors, the Aberdeen County Council 7, and the Linlithgow County Council 4, the other appointments being of 1 inspector each. Dublin City contributes 2 towards the total of 6 for Ireland.

Falsely-marked Clinical Thermometers.

At Clerkenwell Police Court, on Wednesday, Messrs. J. Mark & Co., of Fann Street, St. Luke's, were summoned for having sold to Charles Alexander Nunn, a number of clinical thermometers, to which a certain false trade description was applied. Mr. Eldridge, barrister, appeared for the prosecution, and Mr. Ricketts for the defence. Mr. Eldridge explained that the thermometers in question bore the mark "½min," which was understood in the trade to mean that the instruments would register in half a minute. They had all been tested, and, as a matter of fact, they took from 2 to 2½ minutes to register. This was a serious matter for the public and the medical profession, as the instruments would be misleading when the temperature in fever-cases was taken. Evidence was given bearing out counsel's statement. Mr. Nunn stated that the articles were of German manufacture. In cross-examination, he admitted that the prosecution was undertaken by the Glassblowers' Protection Association. Mr. Ricketts contended that no offence had been proved, and that the case was a trade-union prosecution to prejudice the sale of German manufactures. Mr. Horace Smith imposed a fine of 10*l*. and costs.

Charges of Stealing from Chemists.

Wm. Smith, drover, pleaded guilty at the Long Melford Petty Sessions, on June 22, to a charge of stealing a box of cigarettes, value 6*d*., the property of Thomas John Green, chemist, Lavenham. Defendant having entered prosecutor's shop, the latter missed the cigarettes before defendant left, and searched defendant, finding the box upon him. Several previous convictions having been recorded against the defendant, he was sentenced to six weeks' hard labour.

At Midhurst Petty Sessions on June 21, William Etherington and Charles Dabbs, in the employ of an auctioneer at Midhurst, were charged with stealing cigars and powders from a chemist. Both pleaded guilty. Mr. Othen gave them exceptionally high characters, and the prosecutor expressed a wish that they should be dealt with leniently, which the Bench acceded to by binding them over in their own recognisances of 50*l*., and two sureties each of 25*l*., to be of good behaviour for six months.

James Hampson, a travelling agent, was charged on remand at the Bootle Police Court, on June 20, with having embezzled the sum of 27*s*. 6*d*. belonging to his employer, Mr. Alfred Lawson, who carries on business as a manufacturing chemist in Liverpool and Bootle. A further remand was granted by the Bench.

At the Oldbury Police Court, on June 26, Charles Bates (38), of Parsonage Street, Tat Bank, was charged with embezzling 19*s*. 9*d*., the property of Henry Parrish, druggist, of Birmingham Street, on March 29 last. Prisoner was employed by the prosecutor to deliver goods and receive returns, and sometimes cash, from customers. On the date named he received 19*s*. 9*d*., which he never accounted for. When arrested by Police-Sergeant Cooper, prisoner said he handed the money to the clerk. The Bench dismissed the case.

Scotch News.

Society of Chemical Industry.

The annual general meeting of the Scottish Section of this Society will be held in the Queen Street Hall, Edinburgh, on July 18, 19, and 20, when the reports of the Council and Treasurer will be received, the presidential address read, office-bearers elected, and miscellaneous business transacted. On the first day of the meeting the members are to be entertained, at 4.30 P.M., at a garden-

party by Sir James A. Russell, M.B. (the Lord Provost), at his residence, Woodville, Canaan Lane; and in the evening a reception and *conversazione* will be held in the Museum of Science and Art. On the following day, amongst the places of interest to be visited are The North British Distillery Company (Limited), Gorgie Road, Edinburgh; The Broxburn Oil Company (Limited), Broxburn; and Messrs. John Ford & Co.'s Holyrood Glassworks. At 1 P.M. on this day it is arranged to visit the Forth Bridge, by steamer from the West Pier, Leith, sailing thence to Granton, where, by invitation of Messrs. A. B. Fleming & Co., a garden-party will be held at Royston, and the members will have an opportunity of inspecting the manufacture of lampblack, printing-inks, and solidified oils at Caroline Park. In the evening, at 7.30 P.M., the annual dinner will take place at the Waterloo Hotel, Edinburgh. On the third day alternative excursions are arranged for Aberdeen and St. Andrew's, Dundee, and Perth; and a smoking-concert will be held at the Waterloo Hotel in the evening. The hon. secretary is Mr. J. Stanley Muir, B.Sc., Chemical Department, Glasgow University.

Personalities.

Mr. John H. Thomson, Lochee, is to supply the King's Cross Fever Hospital with medicines, his tender having been accepted by the Dundee Police Commission.

The chair of anatomy, as well as that of chemistry, in Dundee University College is vacant. Professor Melville Paterson is going to Liverpool. Dr. James Walker, at present assistant to Professor Ramsay, University College, London, is the probable successor to Professor P. F. Frankland.

Mr. M. Dechan, F.I.C., F.C.S., Hawick, has been appointed agricultural analyst for the county of Selkirk.

French Pharmaceutical News.

(*From our Paris Correspondent.*)

Cutting Pharmaciens.—"Competition in pharmacy is becoming very keen in Paris," said an old member of the profession to me a few days ago, and in reply to an inquiry how this is most noticeable, he added, "it is apparent from the new *officines* constantly being opened all over the city. The result will probably be a war in prices that may bring many of the smaller traders to their knees. The large cutting pharmacies are on the increase, and they appear to make headway." "It has always appeared to me that chemists in Paris have been satisfied with a purely local connection until a comparatively recent date when some of the 'cutters' began to advertise. Do you think they draw much trade beyond their own centres?" I asked. "I cannot say," was the reply, "how far the bid for a general and extensive trade answers, but the head of a large new pharmacy recently proudly showed me some orders he had undoubtedly secured merely by low prices. They included one, accompanied by a cheque, from the Paris representative of one of the European Powers."

The Murdered President.—The following is a report of the autopsy on the late President Carnot signed by Drs. Ollier, Gailleton, and Lépine:—"The wound is one of the most horrible imaginable. The liver is entirely cut through to a depth of 12 centimetres. A vein has been pierced in two places, and one rib is broken. The knife penetrated to a total length of 18 centimetres. Two litres of blood were found in the abdominal cavity." At the opening of the usual weekly meeting of the Academy of Sciences on Monday, M. Loewy, from the President's chair, proposed the adjournment of the meeting in sign of mourning. The meeting immediately adopted the motion. The Secretary of the Academy afterwards remarked that this is the first time since the foundation of the Institute that no business whatever has been transacted at a weekly reunion. A melancholy incident in connection with the tragedy is that preparations were already commenced for the marriage of the deceased President's second son, M. Ernest Carnot, with the daughter of M. Chiris, the well-known manufacturing perfumer of Grasse.

The Dangers of Bromide of Ethyl.—M. Duplay confirms the opinion recently expressed before the Paris Academy of Medicine that it is a mistake to suppose bromide of ethyl to be innocuous. He mentions a case that had come under his observation in which a young woman, strong, and of general good health, to whom bromide of ethyl had been administered preparatory to a slight operation, died after the first inhalations. The drug was found to have been of good quality, and the customary precautions had been taken by the surgeon, who has great experience with this particular anæsthetic. M. Duplay draws the conclusion that it is necessary to take the same care with bromide of ethyl as with chloroform, it being now proved that the former has practically the same effect on the heart as the latter. In connection with the question of anæsthetics, it is worth recording that M. Laborde drew attention, at the meeting last week of the Academy of Medicine, to the advantage of obtaining anæsthesia by mixing chloroform and ether in the proportion of nine of chloroform and one of ether. This combination is said to be remarkably inoffensive, and more stable than pure chloroform. He added that Dr. Perier has used it with success in his surgical operations at the Lariboisière Hospital. Baron Larrey remarked that similar mixtures had already been advocated, but none of them had been found to be of practical use. To this M. Laborde replied that none of them had hitherto been studied scientifically.

THE ASSOCIATION OF FRENCH PHARMACISTS.

(*From our Paris Correspondent.*)

Seventeenth Annual Meeting.

THE seventeenth annual meeting of the Association of French Pharmacists was held on Saturday afternoon last, in the Salle des Actes of the School of Pharmacy, a hall capable of seating about 200 persons. The room was crowded with Parisian pharmacists and their professional country cousins. M. A. Petit, the genial President of the Association, took the chair shortly after 1 o'clock, and M. Crinon, the Secretary of the Association (an active member of the Paris Society of Pharmacy), read the report of the work of the Association during the past year, and M. F. Vigier followed with a statement of the financial situation. The first proposal on the notice-paper was in the name of M. Congoule, who desired to take the opinion of the meeting on the advisability of introducing a clause in the proposed new Pharmacy Law to the effect that pharmacists require the authorisation of their syndicate to keep apprentices. M. Denize, the next speaker, proposed that the voting at these meetings should be by ballot. This suggestion was at once adopted. M. Denize's next proposition, regarding the desirability of suppressing pharmaceutical specialities, was evidently a matter that keenly interested—not to say excited—the entire gathering, and provoked a general discussion of a somewhat irregular character. In fact, at times the meeting split up into groups, all discussing loudly and simultaneously their personal experiences of the patent-medicine trade. The discussion waxed hotter and more excited every minute, but at last the vigorous tinkling of the presidental bell temporarily restored something like silence, during which the following resolution was read: "The sale of pharmaceutical specialities should be regulated." It was generally understood that this resolution referred to the sale of such goods at cutting prices. But a storm of disapproval surged over the meeting, the few that were still seated rose to their feet like their neighbours, and cries of "Not regulated, but suppressed," came from all sides. The resolution was accordingly amended as follows: "The sale of specialities should be regulated or suppressed," and a show of hands being taken, this was declared carried. A further proposal was then made that every patent-medicine box or bottle should bear upon the label the inscription: "This article is supplied to the trade on the express condition that it shall not be sold to the public for less than the price quoted upon it," and that any vendor breaking this rule shall pay a penalty of 20f. This suggestion was greeted with loud cheers, showing that the meeting fully sympathised with it; but there was also some laughter and cries of "You cannot

make laws," and "Are we the Chamber of Deputies?" "It is not a law," said the speaker, when silence had been obtained. "My idea is to submit this resolution of the Association to each Chambre Syndicale and to all the pharmaceutical societies (whether affiliated to us or not), to let each of them consult their legal advisers, and to tell us what steps they would be disposed to take in the matter." (Cries of "Excellent! excellent!") Thus elucidated the proposal was approved of, although doubts were expressed whether the Association could impose laws on the retail vendors. The subject was thereupon officially declared closed; but it required all M. Petit's presidential exertions to get the better of a group of ardent spirits who seemed disposed to carry on the patent-medicine discussion among themselves to the close of the meeting. M. Viaud next brought forward a motion "that the General Association should fix a minimum tariff to be applied to drugs supplied to the Public Relief Offices." He recognised the impracticability of fixing hard-and-fast figures, but thought they might lay down some general rules. Several speakers expressed their opinion that no further steps should be taken in this direction. The tariff already existing practically represented the maximum of possible interference in these matters. The meeting agreed with this view, and the subject dropped. The bronzed face and handsome, bushy, black hair of the next speaker revealed his Southern origin, and contrasted conspicuously with the appearance of his bald-headed, pale-faced colleagues. His proposition—that the Association should hold its annual meetings from time to time in towns other than Paris—was not calculated to mollify the feelings of the Parisians, all eager, as usual, to subject to a running fire of "chaff" the proverbially ambitious and imaginative Southron. But, undaunted, the speaker went straight to the point. "I am from Marseilles," said he; "I do not ask you to hold your meeting there regularly, but I do think that in the interests of the provincials generally, who have not always the time and money to come to Paris, you should come to us sometimes." "Ah!" cried a Parisian, imitating the Provençal accent, "Paris is only the centre of France, but Marseilles is the centre of 'The South.'" A roar of laughter greeted this well-known skit on the pretensions of Marseilles. "Gentlemen," replied the Southerner, "allow me to say that though the interrupter lives in the City of Light, that city receives some of her most brilliant stars from the provinces." This ready repartee and his good temper finally gained him the ear of the audience, and he briefly enumerated the usual objections to undue centralisation. He asked that the meeting should be held at Paris and in a provincial centre every alternate year. The choice of this centre for the ensuing year would of course be made at each annual meeting in Paris. The Chairman put this proposition to the meeting, but the show of hands was almost equal, and M. Petit proposed to postpone the question till next year, as the time was too short to discuss this important question. A voice: "Yes, and next year you will put it off till the year after." (Derisive cries from the Parisians, shouts of disapproval from the provincials, and general conversation.) The President's bell was once more called into requisition and an effort made to count the votes; but the meeting was evidently indisposed to decide the question at such short notice, and those on the back benches declared they had not distinctly heard the Chairman's motion, owing to the incessant conversation on this absorbing topic. In the ensuing confusion the matter dropped. The thanks of the meeting were tendered to the Chairman, and the discussion was closed. The formal business of voting for the election of five counsellors (two for Paris and three for the Provinces) was then proceeded with; and when the members, oppressed by the sultry afternoon (despite the windows opened on the flower-studded quadrangle), left their seats and hurried to the presidential table to record their votes in a neat little ebony urn, THE CHEMIST AND DRUGGIST representative noticed that all the empty seats were littered with daily papers. "Do the members read the papers during the meeting?" asked he of the attendant. "Oh no, sir; but, you see, these seats are a special kind of moleskin, and this hot weather it has very sticky properties. This seems to have escaped you when you were unintentionally walking away with that chair." It was interesting to observe the front benches covered with the solemn *Journal des Débats* and the aristocratic *Gaulois*, while the back was littered with halfpenny prints of democratic and revolutionary hue. Those in the inner circle round the presidential table warily concealed their individual politics by using the white sheets destined for correspondence, or the printed drafts of the new Pharmacy Act.

Foreign and Colonial News.

A NEW YORK DRUG-CLUB.—On June 16 a meeting was held at the Astor House, in New York, for the purpose of considering the establishment of a down-town dining-club for the wholesale drug and chemical trades. Those interested are for the most part the buyers and heads of departments in the large houses and some brokers. About twenty-five druggists were present, though a number of others have signified their intention of supporting the movement. The idea is to have a dining and meeting room, to be open about two hours in the middle of the day, which will, in a sense, be an informal exchange, though the disastrous history of a former New York drug-exchange deters the trade from formally attempting the foundation of another such establishment. The organisation will, therefore, be largely social in its character. Among the houses represented are:—McKesson & Robbins, Lehn & Frink, R. W. Phair & Co., Colgate & Co., Mallinkrodt Chemical-works, Parke, Davis & Co., David Green, Thurston & Braidisch, Dodge & Olcott, Fred Kalbflusch & Co., and Merck & Co. The local trade Press was also well represented.

ALUMINIUM FOR DECORATING GLASS.—A discovery which may revolutionise the industries of engraving and designing on glass, porcelain, and pottery has recently been made by M. Charles Margot, of Geneva. M. Margot has found that aluminium possesses the singular property of leaving on glass, and on most articles having silica as a basis, a metallic deposit, especially when the metal is used as a pencil. The surface to be treated must be moist; but even breathing on them is sufficient to produce the most intricate designs, which no amount of washing, soaking, or friction will cause to disappear again. The aluminium will attach itself to the surface of glass and porcelain in such a manner as to produce an even and perfect design, of metallic appearance, and so thick is the coating of the metal that when glass thus treated is held to the light the design itself appears quite opaque. The metallic design can be polished, and the effect thus obtained is very beautiful. The discovery is likely to prove valuable for the graduation of measures, thermometers, &c. The tenacity of the metal is so great that it seems to adhere as firmly as if one piece of metal had been joined to another by means of solder. By subjecting the glass to the action of hydrochloric acid or caustic potash the metal quickly disappears, though leaving the design distinct and intact, its lines presenting the appearance of corrosion. Experiments were made to ascertain whether other metals possessed similar properties; but only two others—viz., magnesium and cadmium—were deposited in an appreciable quantity. Magnesium deposits itself very readily if used as a pencil, and the presence on the surface to be treated of the slightest trace of moisture permits a design to be made on glass or pottery as easily as with a lead-pencil on paper. Unfortunately, magnesium oxidises quickly, and the design disappears rapidly. Cadmium is dull and soon fades away. Magnesium and aluminium were tried on precious stones, and found to leave a bright metallic deposit on the topaz, ruby, emerald, and paste; but no effect was produced on true diamonds. This fact affords a valuable test for jewellers. M. Margot has patented a number of instruments for the use of these metals.

THE TURKISH OPIUM-TRADE.—The opium poppy, which yields the most valuable and interesting article of export from Asia Minor, is mostly cultivated, in the central parts of the country, on sandy or chalky soil, richly manured. The autumn sowings, which are begun towards the close of September, yield the largest, the spring sowings the smallest, crop. The seed is sown two or three times in spring, between the beginning of February and the end of April. The spring crop requires greater uniformity of weather than the autumn crop, especially frequent rains. The consequence is that the

plants of the spring sowings are more delicate, and that their product is inferior to that of the autumn crop. The juice is obtained by making incisions in the capsules at sunset and collecting the juice oozing out in shells. The next morning the juice is dried and shaped in blocks or cakes, which are wrapped round with poppy-leaves. The balls, when dry, are placed in tall baskets holding about 1½ cwt., with certain leaves which have the property of keeping the opium in good condition, and of preventing the cakes from sticking to one another. The following are the various varieties of opium and their comparative values:—*Malatia*, *Tokat*, *Zileh*.—Quality extremely fine, and of a paste much appreciated by Chinese smokers for its delicate flavour. Morphia proportion large, varying from 8 to 11 per cent. *Boghaditch*.—The best quality of Turkish opium, paste delicate and fine, greatly appreciated by opium-smokers in Central America. *Yerli*.—All opium which is grown in the neighbourhood of Smyrna is called Yerli. It is less valued than that of Boghaditch, but is as rich in morphia. This is the quality which is generally used in medicine. *Chaue*.—This kind is so like that of Yerli that it may be included in the same category. *Salonica*.—The cultivation of opium at Salonica is of relatively recent date. It has greatly extended, and produces about 800 cases per annum, half of which, of very fine quality, is more appreciated than even the Boghaditch. *Karahissar*.—This is the district which produces most opium, and supplies England, America, and Holland. The quality of this variety is very good; the morphia in it varies from 9 to 12 per cent. *Adeth*.—Average quality brought from all parts of the interior. The Turkish word "adeth" means "usual." It represents the ordinary type, which is mostly sold for China and America, and the amount of morphia is almost uniformly 9½ per cent. *Chinquiti*.—This name is given to a quality from various parts of the interior. It is opium mixed with foreign matter; it sometimes contains morphia to the extent of 9 per cent. *Tale quale, or "As they are."*—Under this name are designated those opiums which are bought in the condition in which they arrive from the interior. The morphia in this variety runs from 9 to 11 per cent. It should be noted that mouldy opiums of bad appearance, which are rejected, are often found figuring afterwards in the category of the "Tale quales."

Patents.

The following applications for Patents have been registered at the Patent Office.

Anti-pyretic Preparation. 3,179.—February 14, 1894. S. Radlauer.

Bleaching-powder and Apparatus.—1,572.—January 24, 1894.—T. Houghton and W. Shield.

Filters.—2,356.—February 3, 1894.—W. Railton and R. Campbell.

Healing-ointment.—1,806.—January 27, 1894.—T. Moxon.

Inhaler.—1,419.—January 23, 1894.—V. Collinson.

Lead-salts.—2,060.—January 30, 1894.—H. H. Lake.

Liver-pills.—1,639.—January 25, 1894.—G. E. S. Ingram.

Medicine for Piles, &c.—2,073.—January 31, 1894.—G. Shoppee and H. Durham.

Specifications Published.

Copies of the following may be obtained from the Patent Office, by post, on application by card obtainable at any post office for 8d.

1893.

3,820. Morgan & others. Filter.

3,830. Kingzett. Disinfecting, &c.

4,900. Gelder. Gum-lozenges, &c.

4,920. Parker & Robinson. Utilising chlorides of sodium, &c.

4,950. Wright. Antiseptic and disinfectant material.

NEW BOOKS.

The following new books of interest to readers of The Chemist and Druggist have been published recently. Mention of a publication in this list does not preclude a subsequent review of any book.

Bower, F. O., F.R.S., Regius Professor of Botany in the University of Glasgow. *Practical Botany for Beginners.* Pp. xii. and 276. Globe 8vo. 3s. 6d.

Church, A. H. *The Laboratory Guide: a Manual of Practical Chemistry for Colleges and Schools. Specially arranged for Agricultural Students.* Seventh edition, revised. Post 8vo. Pp. 300. 6s. 6d. (Gurney & Jackson.)

Dieterich, Eugen, and Bosetti, Dr. E. *Neues pharmaceutisches Manual* Illustrated. Sixth edition. In 12 parts, at 1m. each. (Julius Springer, Berlin.)

Dupuy, Edmond. *Cours de Pharmacie.* Tome Premier. A. Histoire et Législation Pharmaceutiques. B. Pharmacie galénique. With 60 illustrations. 8vo. Paper covers. Pp. 940. 18f. (L. Bataille & Cie., Paris.)

Hanbury, F. J. *An Illustrated Monograph of the British Hieracia* (drawings chiefly by Miss G. Lister). Part VI. Coloured plates, 6s.; uncoloured ditto, 4s. net. (Published by the author.)

Itzerott, Dr. G. *Bakterienkunde.* 8vo. Pp. viii. + 128. With 48 illustrations. Cloth. 3.25m. (Williams & Norgate.)

Kerly, D. M. *The Law of Trade Marks, Trade Name, and Merchandise Marks. With Chapters on Trade Secret and Trade Libel.* 25s. (Sweet & Co.)

Le Nève Foster, C., F.R.S. *A Text-book of Ore and Stone-mining.* Cloth, large 8vo. With frontispiece and 716 illustrations. 34s. (Charles Griffin & Co., Limited.)

Macnamara, N. C. *Physical Defects, including Vision, which Disqualify Candidates for the Civil or Military Services.* With Test-types. 8vo. Pp. 31. 2s. (Churchill.)

Novy, F. G. *Directions for Laboratory Work in Bacteriology. For the Use of the Medical Classes in the University of Michigan.* Illustrated. 8vo. 6s. 6d. (Ann Arbor, U.S.A., and Sampson Low, London.)

Pavy, F. W., M.D., F.R.S. *The Physiology of the Carbohydrates: Their Application as Food and Relation to Diabetes.* Large 8vo. Cloth. Pp. x. and 280. 10s. 6d. (Churchill.)

Perkin, W. H., jun., and Kipping, F. S. *Organic Chemistry.* Part I. Or. 8vo. Pp. 302. 3s. 6d. (Chambers.)

Phillips, C. D. F. *Materia Medica, Pharmacology, and Therapeutics: Inorganic Substances.* 2nd edition. 8vo. Pp. 898. 21s. (Churchill.)

Quain, R., Bart., M.D. (Editor). *A Dictionary of Medicine.* New edition. 2 vols. Pp. 24 and 1,223 and 1,260. Royal 8vo. Cloth. 40s. net. (Longmans.)

Rothwell, R. P. *The Mineral Industry: its Statistics, Technology and Trade.* Vol. II. Pp. 1,050. 25s. (Scientific Publishing Company.)

Tschirch, Dr. A., and Oesterle, Dr. O. *Anatomischer Atlas der Pharmacognosie und Nahrungsmittelkunde.* Part IV. 4to. Paper covers. 1.50m. per part. (C. H. Tauchnitz, Leipzig; Williams & Norgate, London.)

Walther, Robert. *Allgemeines über Naturheilkunde.* 12mo. Pp. 126. 0·40m. (Siegbert Schnurpfeil, Leipzig.)

Warren, A. *Methylated Spirit: A Compendium for the Retailer and Laboratory Director, with some Information for the Public.* 8vo. Pp. 14. 4d. (Arrowsmith, Bristol.)

Witt, Dr. Otto N. *Die Chemische Industrie auf der Columbischen Weltausstellung zu Chicago und in den Vereinigten Staaten von Nord-Amerika im Jahre* 1893. Large 8vo. Pp. 148. Cloth, 5m. (R. Gaertner's Verlagsbuchhandlung, Berlin.)

Notes on Forthcoming Publications.

Dr. Trimen, the Director of the Botanical Gardens of Ceylon, has made considerable progress with his great work "The Flora of Ceylon," the "copy" for the first volume of which has recently been received from him by his publishers in this country. Dr. Trimen now works uninterruptedly at his book, which will be the great work of his life.

Messrs. Eyre & Spottiswoode have in the press "Sale of Food and Drugs Acts, 1875 1879," annotated, with copious notes of cases reported since the passing of the Acts, by T. H. H. Hedderwick, of the Middle Temple, barrister-at-law. It is meant for the use of practising barristers and solicitors, and of magistrates and local authorities.

Professor J. P. Remington is engaged on a new edition of the "Practice of Pharmacy," which will be published shortly.

Dr. Watt, Economic Reporter to the Government of India, and the author of "Watt's Dictionary of Economic Products," has been paying a short visit to Simla from Calcutta, in connection with certain new work he is about to undertake, his dictionary having been completed.

Messrs. Sampson Low & Co. have in the press for early publication a new edition of Mr. John Morrylees' guide, "Carlsbad and its Environs." Dr. B. London, a resident physician, contributes a chapter on "The Use of the Waters."

CHEMICAL SOCIETY.

THE last ordinary meeting of the present session was held on June 21, and the attendance was again large. There were eight papers down for reading, and six were actually given.

SCOTCH IRON OF 300 YEARS AGO.

The first was on "A Specimen of Early Scottish Iron," by Mrs. Dougal, and the style of delivery was such as to put in the shade the oratorical efforts of many of the sterner sex. Mrs. Dougal had half-a-dozen ladies present to support her, and made use of the lantern for depicting the situation of the ancient ironworks on Loch Maree in the Western Highlands. In the course of a survey by Professors Rücker and Thorpe they found an ingot of iron on the shore of the Loch, and Mrs. Dougal analysed it. The bar was about 16 inches long and weighed 12 lbs.; it was covered with a cake of rust $\frac{1}{8}$ inch thick, the metal beneath being fairly sound and homogeneous. Its composition and general physical behaviour corresponded closely with samples of iron of first-rate quality made to-day, and considering that it was made from bog-ore with wood as fuel probably 300 years ago, the small differences are very remarkable. To test its physical characters a portion of this "Fassagh" iron was fashioned by a South Kensington metal-worker into a support for a bowl. It closely resembled the Swedish iron used by English smiths in the seventeenth century.

Professor Thorpe added a few words to emphasise what he described as the point of the paper—viz., that it was an analysis of the first authenticated specimen of smelted ore. There was traditional evidence of the Romans having worked in iron, but so far as he had been able to learn there did not exist any actual documentary evidence of any earlier smelting than this "Fassagh" iron of the Scotch Highlands.

PASTEUR WRONG ABOUT YEAST.

Mr. Horace Brown gave a very brief abstract of a paper by Mr. Adrian Brown, his brother, on "The Specific Character of the Fermentative Functions of Yeast-cells." The results of Mr. Brown's work controvert the generalisations of Pasteur, which have been accepted as the true explanation of the phenomenon of fermentation for more than twenty years. If yeast be sown in a liquor containing carbohydrate material the oxygen necessary for the respiratory purposes of the growing yeast-cells is under ordinary circumstances obtained from the carbohydrate molecule, which then becomes further changed into CO_2 and alcohol. But if the liquor be freely aërated a great increase in yeast-reproduction is possible without any corresponding alteration in the amount of fermentation products. Mr. Brown says Pasteur's observations are obscured by the conditions under which he worked. He took cane-sugar and yeast, and the inversion which the sugar undergoes prior to fermentation complicates the reaction. The author concludes that some other theory than the "starvation" hypothesis must be sought, for the instability of the sugar molecule is not due to the bite the yeast takes out of it.

Mr. Brown's statements were corroborated by Mr. Heron and another Fellow. If large volumes of air be blown through a vat of "sweet wort," it may become changed from right-handed rotation to lævo-rotatory in the course of about twelve hours.

Dr. Armstrong said it was not absolutely necessary to accept the statements made by Pasteur twenty years ago, because during that interval our knowledge of the constitution of things had developed very greatly, and newer knowledge was always likely to result in the modification of conclusions based upon experiments of earlier days.

THE INTERACTION OF LEAD SULPHIDE WITH LEAD SULPHATE AND OXIDE.

Mr. Hannay, whose views on the metallurgy of lead evoked considerable scepticism a month ago, gave a further paper on the subject. His remarks were illustrated by a wealth of blackboard equations and diagrams, but his demonstration was admittedly difficult to follow. However, he had the satisfaction of hearing Professor Roberts Austen and other eminent metallurgists acknowledge that there was more truth in his (Mr. Hannay's) novel views than they had at first given him credit for. Percy's representation of the changes occurring in lead-smelting, upon which all the text-book descriptions are based, will therefore need revision. There is no further question as to the volatility of PbS with SO_2, and a similar volatilisation occurs if an atmosphere of N be employed—so said the chemist to the Mint. One of the Mint chemists said lead seemed capable under some conditions of decomposing SO_2 and combining with both elements. Dr. Armstrong trusted that the publicity that had been given to Mr. Hannay's observations would induce metallurgists to continue the work and clear up the doubtful points.

TARTARIC ACID AND IRON.

The next paper was by Mr. H. J. H. Fenton on "The Oxidation of Tartaric Acid in the Presence of Iron." If to a solution of the acid or to any soluble tartrate one drop of $FeSO_4$ solution be added, then a peroxidising agent, such as H_2O_2 and then excess of caustic alkali, a fine violet colour is produced. The same coloration may be seen at the platinum anode if a solution of $FeSO_4$ and a tartrate be electrolysed. It was the author's work to separate and critically examine the body which gives rise to this coloration. A basin exposed in the open air colours more rapidly than does one in a room, whence it was thought that ozone was the active agent in promoting the change. But it was found upon experiment that ozone does not give the colour, and it is now believed that the change was brought about by traces of H_2O_2. The substance is crystalline, stable in air, not soluble in water, but soluble in alcohol, caustic alkalies, phenol, &c. The ethyl-ester is soluble in water, and by examining this compound a clue to the composition of the original body was obtained. It is regarded as tartaric acid *minus* H_2. It has the empirical formula $xC_2H_2O_3$, or if hydrated xCH_2O_2.

The ethyl ester is prepared by dissolving the crystals in alcohol through which CO_2 is being passed. There is only a small range of temperature through which it is stable. It forms by recrystallisation a class of crystal which is quite different from that deposited by single crystallisation. Whether or not this dimorphic character is derived from traces of impurity, or is due to physical isomerism, is unknown. They all give the violet colour with $FeSO_4$ and excess of alkali. When heated with HI, iodine is set free and succinic acid is produced. With phenylhydrazin in alcoholic solution, a precipitate with a silver-like metallic sheen is deposited; if heated, the precipitate takes on a yellowish colour, and looks like gold. Mr. Fenton proposes to discuss the constitution of this remarkable substance when he has cleared the way. He prefers to be sure of his facts before building up an elaborate theory, though, as he said, it seems to be the fashion to get the theory first, and the facts, if you can, afterwards—a sarcasm which seemed to be appreciated.

NO CHANGE IN CHELTENHAM SALTS.

Professor Thorpe then gave, in a very few words, the note on a "Cheltenham Mineral Water," which has been crowded out once or twice before. The Professor said it was one of the series of analyses that he had, off and on, been engaged in for something like twenty years—viz., an examination of the notable springs of this country; and the point of interest in this communication was that the well was analysed by Abel some fifty years ago, and there is no material alteration in the composition of the spring as attested by Abel and now by Thorpe, despite the half-century that has elapsed.

GASES AND THEIR SOLVENTS.

The last paper to secure a hearing was given by Mr. J. W. Rodger, who, in conjunction with Professor Thorpe, had studied "The Relationship between the Solubility of a Gas and the Viscosity of its Solvent." It was entirely mathematical, and unsuited for abstraction.

A special meeting was announced for Thursday, June 28, to be held at the Royal Institution, at which Professor Dewar will redeem his promise given to the Fellows a fortnight ago.

SUGAR greatly increases the solubility of borax.

Legal Reports.

Rival Natural Mineral Waters.

The Apollinaris Company, through Mr. John Cutler, on Friday in last week, asked Mr. Justice Kekewich, sitting in the Chancery Division of the High Court, to issue an injunction restraining the proprietor and manager of Daly's Theatre from publishing in his programmes a statement calculated to lead the public to believe that the Johannis water is the only natural mineral water that can be obtained at the Midland, Great Western, and other stations and hotels. This, counsel said, was perfectly untrue, seeing that the Apollinaris Company had a contract with these particular railway companies to supply them with their water, and they also supplied the best-known hotels. Upon the notice of motion being served, certain correspondence had taken place between the solicitors of the parties. The defendant was not present, he (Mr. Cutler) understanding that he was abroad.

His Lordship: Mr. Daly is a gentleman who is very well known?

Mr. Cutler: Yes; what has been agreed to is a consent order for an injunction restraining the further publication complained of, and Mr. Daly undertakes to pay a sum beyond the costs. Twenty pounds has been agreed to, and I ask your Lordship to treat this as the trial of the action and to grant a perpetual injunction on the terms agreed to on production of the consent agreement.

His Lordship: Very well.

An order was made accordingly.

Morris Little & Sons *v.* Pearson.

In the Chancery Division of the High Court of Justice, on June 22, the motion on behalf of the plaintiffs in this action to restrain the defendants from passing off sheep-dip not of the plaintiffs' manufacture as and for the plaintiffs' sheep-dip again came before Mr. Justice North. On the previous occasion, Mr. Eustace Smith, for the defendants, stated that what had been done by his clients had been done by inadvertence, and that they did not claim the right to do what was complained of. Under these circumstances Mr. Swinfen Eady, Q.C., on behalf of the plaintiffs, suggested that the defendants should submit to a perpetual injunction, each party paying their own costs. Mr. Eustace Smith assented to this course.

An order was accordingly made in those terms, and the parties agreed to treat the motion as the trial of the action.

The Irish Pharmacy Regulation.—Certificate of an Apprentice's Service.

On June 21, in the Four Courts, Dublin, before Mr. Justice Holmes and a common jury, a case was listed for trial in which Elizabeth Mayne, widow and executrix of Joseph Mayne, deceased, and their son, Henry Vaughan Mayne, of Patrick Street, Cork, sued William Harrington & Sons (Limited), also of Patrick Street, in the same city. The action was to recover damages, laid at 300*l.*, for failing to give the plaintiff Henry V. Mayne a certificate of having served an apprenticeship of four years to the defendants as pharmaceutical chemists sufficient to satisfy the rule of the Pharmaceutical Society of Ireland. The statement of claim alleged that in consideration of the plaintiff H. V. Mayne entering into indentures of apprenticeship with the defendants they covenanted to instruct him in the business of a pharmaceutical chemist, and to give him at the expiration of his term of four years a sufficient certificate; that he duly served four years with them from December 19, 1888; that they, nevertheless, failed to give him the certificate; and that they represented that they were pharmaceutical chemists duly qualified to give the certificate, and thereby induced the plaintiff to become their apprentice; but that they were not pharmaceutical chemists duly qualified to give the certificate. The defences were that the rule of the Irish Pharmaceutical Society requiring the certificate had not been duly made, and was *ultra vires*; that the indentures contained no contract such as the plaintiffs alleged; that the defendants did give a certificate to the plaintiff H. V. Mayne; and that they did not make the representations alleged in the statement of claim; and there was also a denial of the statement that they were not qualified to give a certificate.

Messrs. George Wright, Q.C., Mathew Bourke, Q.C., and J. B. Sandford appeared for the plaintiffs, and Messrs. Seymour Bushe, Q.C., Ronan, Q.C., and McCarthy Mahony for the defendants.

The case having been called on and a jury sworn,

Mr. M. Bourke, Q.C., addressing the learned Judge, said that a settlement had been arrived at. The case involved an important question of law, but counsel on both sides had satisfied themselves that the action was not maintainable against the defendants. The defendants, however, considered that the plaintiff had been somewhat harshly treated by a third party, and had, agreed upon judgment being entered for them without costs, to pay 35*l.* to the plaintiff for his costs.

Mr. Bushe, Q.C.: We are for the defendants, and our friends on the other side have met us very reasonably. There is no cause of action at law against us whatever, but as this young man has been disappointed and put about we do not wish to visit him with costs, and wish to contribute towards his costs.

Mr. Justice Holmes: The best way to carry it out is to take from the jury a verdict for the defendants and by consent of the parties to enter judgment without costs.

Mr. Bushe, Q.C.: These are the words of the consent:—"It is hereby consented and agreed between the parties that a judgment be entered for the defendants without costs, the defendants hereby undertaking to pay to the plaintiffs' solicitor the sum of 35*l.* as and for his costs of the action, and that the consent be made a rule of Court."

A verdict for the defendants was then found by the jury.

Mr. Arthur Ferrall, Registrar of the Pharmaceutical Society of Ireland, applied for expenses, stating that he had been subpœnaed as a witness and had been four days in attendance waiting for the trial.

Mr. Justice Holmes: That is a matter that I have no control over. If you were summoned as a witness by either party you have a remedy against them. I don't say that you are not entitled to your expenses.

Chemists and Optical Goods.—Important Decision.—A Gross Misrepresentation.

In the City of London Court, on Thursday, the case of the British and Foreign Optical Company (Limited) *v.* Blacklock was disposed of before Mr. Julian Robins, Deputy Judge, and a jury. The case was before the Court three weeks ago, when Mr. Commissioner Kerr, realising that there would be a strong conflict of evidence, said the action must be heard before a jury. The parties, therefore, now came before that tribunal. The proceedings were brought by the plaintiff company, of 12 Furnival Street, Holborn, and they sought to recover the sum of 15*l.* 11*s.* 4*d.* for optical goods supplied to the defendant, Mr. P. W. Blacklock, chemist, of 32 Old Steyne, Brighton.

Mr. Crisp appeared for the plaintiffs, and Mr. Skinner Turner for the defendant.

In opening the case, Mr. Crisp stated the plaintiffs were carrying on a large business in optical goods, and had recently established numerous agencies, their travellers visiting persons not already in the optical trade, chemists and others being principally selected. They sold their goods at very moderate rates. The plaintiff company's course of business was to publish a circular, upon which they printed the name of their agent. In this way a selection was made in particular localities, and in that district the customer was the only person selling the plaintiffs' goods. The plaintiff company's traveller, Mr. Isaacs, called on the defendant at Brighton, and obtained from him an order for a certain number of spectacles, the defendant, although a chemist, having been persuaded by the plaintiffs' traveller to start in the optical line. The traveller gave the defendant one of the circulars on which it was stated, "All spectacles and eyeglasses sold by us much under the usual opticians' prices." They also gave a list of the prices which could be obtained for the goods they sold, the first item being an announcement that steel spectacles or eyeglasses were sold at 9*d.* per pair. The defendant purchased some of the goods, and now

was complaining of them, although he could scarcely expect to get a very valuable pair of spectacles for 9*d*. Those were sold to the defendant for 4½*d*. per pair. The prices increased, of course, for the better-class goods, the last quoted being pebble spectacles at 6*s*. per pair. Those were sold to the retailer for 3*s*. per pair. In that way the traveller introduced the goods and told the defendant, who until then knew nothing about spectacles, what a capital thing it would be to go in for. The defendant then gave the traveller an order, without anything being said about price, for 1½ dozen spectacles and folders to sell at from 9*d*. to 6*s*. per pair, the terms being 5 per cent. cash or four months net for acceptance. The order also said, "Should you find any line unsaleable we will take back and exchange at twelve months, or at the expiration of twelve months, should you wish to relinquish the optical trade, we will, on appointing another customer in Brighton, take back and allow full prices for all goods returned in good condition." That order was signed by the defendant, and the goods were despatched on April 18. Three days afterwards the defendant wrote to the plaintiff company saying that on making an examination of the goods he found so many of them were of such inferior quality that he could not possibly sell them. Their traveller, the defendant added, told him that they were first-class goods, the same as sold by the best opticians, whereas he found they were not what they had been represented to be. He consequently declined to keep them or to have any others in their stead. When the plaintiffs received them back they returned them again to the defendant, as they could not allow their orders to be cancelled in that way. They now sued the defendant for the price of the goods.

Mr. Edwin Isaacs, the plaintiffs' traveller in question, was called, and spoke to having taken the order. In cross-examination he said he had never seen the defendant until he received the order from him. He showed the defendant some samples, and the sale was by sample. It was not true to say that he did not produce a single sample. He told the defendant that, at the price, the goods were thoroughly good value. He did not say they were the same goods as sold by the leading opticians in Brighton, nor did he mention the name of the firm who enjoyed the distinction of being best known. He told the defendant that the better-quality goods supplied by them were similar to those sold by opticians. The best goods commenced at 1*s*. 9*d*. per pair. In the circular they said that the spectacles were "made of the best crystal glass, ground with most precise scientific accuracy, and, being very hard, do not quickly scratch." That was quite true except as regarded the cheaper glasses, although in the circular they did not say that the cheaper ones were excluded from that description. There was no truth in the suggestion that the spectacles "came from Germany." The defendant told him that he did not want to go in largely for the goods, but he did not ask what the total amount of the order would come to. An order for 15*l*. worth of goods was what he would consider a small order. He frequently took orders for 40*l*. and 50*l*. worth of goods.

Mr. Crisp said he must submit that this was not material. The defence evidently was that the order was obtained by false and fraudulent representation. That might or might not have been the case. They could not go into the amount of the "order." The only question for the jury to decide was whether the plaintiffs' traveller had obtained the order improperly.

Mr. Turner said he was showing that the defendant intended to give an order for about 2*l*. or 3*l*., and not for 15*l*.

The witness was further cross-examined, and he said the defendant well knew the quantity he was ordering. Witness was not the manager of the plaintiff company, nor a director, but simply a traveller, going to all parts of the country for orders, calling on chemists in the various towns which he visited. It was not true that he unpacked the goods in the defendant's shop. He did not go behind chemists' counters and unpack their goods. He gave the defendant the invoice, and then the defendant commenced to unpack the things. While that was being done the defendant stopped him and said he would write to the plaintiff company. It was not a common thing for them to have complaints about their goods. He did not know that they had any, or that any parcels were returned. They were always willing to exchange goods at customers' wishes, but not because they were not "up to the mark." Complaints had not been made as to the manner in which he obtained orders from chemists in all parts of the country, notably at Fratton, Oxford, Colchester, Leicester, Peckham, and Birmingham.

Mr. Crisp said that was not the question for the jury. There might be complaints, but they could not, he submitted, go into them. Frequently it happened that chemists complained, and then kept the goods.

The Deputy Judge thought the question for the jury was whether the plaintiff company had or had not sustained any damage.

Mr. Crisp said it was not an action for damages, but for the price of the optical goods sold and delivered to the defendant.

The Deputy Judge: Look at your contract. You will charge any of the goods; you will take them back, you say. If this chemist goes out of the optical trade in twelve months you will take the things back and allow the full price for them.

Mr. Crisp argued that that did not apply until they had appointed another agent. They were not to have their goods returned when they had been sold.

The Deputy Judge repeated that it seemed to him to be a question of damages.

Mr. Crisp said they wrote to the defendant when he refused to have the goods, pointing out that they were not inferior, and adding, "We do not send our travellers out to take orders and go to expenses, and then receive good goods back on such paltry excuses." The property in the goods was not in the plaintiff company, as it had passed to the defendant.

The witness, in answer to further questions, said their firm had never changed their name. They were a limited company, and had been in existence for about eighteen months.

For the defence, Mr. Philip W. Blacklock, the defendant, was called. He detailed the interview with the plaintiffs' traveller, and said he gave the order from the circular without knowing it would come to so much. He was rushed into signing the order, and he did so, like a fool, without reading it. The traveller worried him so until he gave what he thought was a small order to get rid of the fellow. He had no idea that it was a large order. He hardly knew what he was doing. The traveller was with him for half-an-hour.

The Deputy Judge: You are paying him a very great compliment when you say he can put a person into such a state that he does not know what he is doing. (Laughter.)

The Defendant: It is not myself only. There are hundreds of other chemists who have been done likewise.

The Deputy Judge: He ought to be worth something as a traveller.

The Defendant (ironically): Yes, he is.

In answer to further questions, the defendant said he saw no samples when the traveller came. They were not even offered him. After the goods arrived Isaacs said if he (defendant) would unpack the goods, he (the traveller) could put him up to some hints. As soon as some of them were undone he said, "Good gracious! I did not order all that quantity." He stopped the unpacking and sent the goods back, carriage paid, but they were returned to him. All the glasses that he looked at had dots on them, making them unsaleable in a shop of his description. Isaacs told him the goods were the same as sold by the largest optician in Brighton, mentioning his name.

In cross-examination he said he did not know why he did not insist upon seeing a sample. If a traveller wanted to sell him, say, pomade-pots, he would not buy them without a sample, but all travellers in their business did not bring samples. They did not buy drugs, for instance, by sample, the goods being sold according to the standard of quality fixed by the Apothecaries' Company. He was led to believe he was ordering a certain quantity, and he now found it was more than double the amount. He asked the traveller how much the things he ordered would amount to approximately, and he passed the subject off.

Mr. Henry Kemp, wholesale optician, Thavies Inn, Holborn, said he had had thirty-three years' experience in the manufacture of glasses. He had, as an expert, carefully examine the goods sent by the plaintiff company to the defendan

Most of them were inferior goods, but some were nothing more than rubbish. In some cases the prices charged by the plaintiffs were more than double what would be charged by any respectable wholesale house. He could send out a similar parcel of goods for which 15*l.* had been demanded for 6*l.* 10*s.*, and then he would think he was doing well.

In cross-examination he said that the glasses for which 33*s.* per dozen had been charged were worth only 14*s.* 6*d.* Not one of the things furnished by the plaintiffs to the defendant was made in England.

Mr. Turner said he could call another optician, but he would leave the case where it was.

Mr. Crisp, in addressing the jury, said that before they came to the conclusion that the plaintiff company could not recover they must find that the traveller had made a fraudulent representation about the goods.

The Deputy Judge summed up in very strong terms. He very much doubted, he said, whether it was a sale by sample. He hoped the jury would give their best attention to the case, because it was either one thing or the other. It might be a very considerable fraud, it seemed to him, on the part of the plaintiff company, so far as the defendant was concerned. It was a most extraordinary thing how the traveller pushed the defendant and rushed him. The question was whether there was ever an agreement to buy the goods at all. The traveller seemed to have completely rushed the defendant by his extreme vigour and his representations. If a man made a representation that the goods were the same as sold by opticians and they were not, that was direct fraud. The traveller knew all about spectacles, and the chemists whom he visited did not. There was no reason why chemists, so far as he knew, should sell glasses, unless it was that a chemist would have a reputation for being something of a chemical doctor, and the plaintiffs could say that they were "recommended by the faculty." He did not know if that was the idea or not. It was very singular that the plaintiffs took their goods to chemists. There was the evidence of Mr. Kemp, who had no particular interest one way or the other, and the plaintiffs, who were acquainted with opticians of position did not venture to call anyone to confirm their prices. If Mr. Kemp's evidence were true, there had been a gross mispresentation on the part of the plaintiffs' traveller. He had tried to rush his goods on to the defendant in such a way that if the jury could find good and sufficient ground they would be very apt to think the defendant ought to be relieved of the bargain. The point was, had the traveller been guilty of fraudulent representation or not. If he had they would find for the defendant.

The jury, after a few moments' deliberation, found a verdict for the defendant.

The Deputy Judge, in allowing costs, said: I think it is a very proper verdict. I think it is a disgraceful thing to go and rush a man like that. If he had been in the trade it would have been a very different thing.

Judgment was accordingly entered for the defendant with costs.

Keating's Insect-powder.

On Tuesday, June 26, Mr. Justice Romer, in the Chancery Division of the High Court of Justice, heard the action of Keating *v.* Blumberg, in which the plaintiff sought an injunction to restrain the defendant from selling insect-powder not manufactured by the plaintiff as and for "Keating's." The plaintiff carries on business at St. Bride's Avenue, Fleet Street, and the defendant is a chemist of 230 Commercial Road, East. Evidence having been given of the purchase on different occasions of 2*d.* packets of powder as and for Keating's, Mr. John Wylde (the plaintiff's manager) proved that the contents of the boxes were not of the plaintiff's manufacture.

Mr. Alex. Young appeared for the plaintiff; the defendant was not represented.

His Lordship granted an injunction, with costs.

British and Foreign Optical Company *v.* Moss.

Respecting this case, reported last week, the plaintiffs write us that "the case of ourselves *v.* Moss was withdrawn by consent of both sides, and settled out of court, neither solicitors to appear." We have ascertained also from the defendant that a settlement was arrived at; but that he did not know about any arrangement for the solicitors not to appear.

County-court Claims.

In the Westminster County Court, on Tuesday, the case of Leach *v.* Meldon was before his Honour Judge Lumley Smith on a judgment summons to enforce payment of a debt of 13*l.* odd alleged to be due from the defendant, who was described as a chemist carrying on business at Manchester. The claim was in respect of costs incurred in an action, and it was said he was in a good position to pay. His Honour said there was no evidence of the defendant's means of paying the full amount down, and made an order for payment by monthly instalments.

At the same court, and on the same day, his Honour tried the case of Canthorpe *v.* Isidore, in which the plaintiff, a sign-writer, carrying on business at Long Acre, sought to recover payment of an account for work done in connection with the preparation of some sign boards and glasses erected over the shop of a chemist at Sussex Place, Onslow Gardens, South Kensington. The defendant was a dentist carrying on business above the chemist's shop, and his defence was that he countermanded the order. Judgment for the plaintiff for 6*l.* 4*s.*, with costs.

An Advertising Claim.

In the Westminster County Court, on Wednesday, His Honour Judge Lumley Smith had before him a case in which the proprietors of the *Licensed Victuallers' Gazette* sought to recover payment for a series of advertisements inserted to the order of the defendant, who was described as the proprietor of Frazer's sulphur-tablets. The defendant did not deny his liability, but contended that he was not bound to pay until the contract had expired, and, although he admitted his liability, he objected to having to pay costs. His Honour held that the amount was due, and gave judgment for plaintiffs for the sum claimed, with costs.

Bankruptcies and Failures.

Re Frank Lister Meadows, lately trading as Hill Brothers & Co., at Phipp's Wharf, Wandsworth, Chemical-manufacturer.

At the London Bankruptcy Court on June 22, before Mr. Registrar Brougham, this bankrupt applied to pass his public examination upon accounts showing total liabilities 3,606*l.* 1*s.* 10*d.*, of which 1,420*l.* 18*s.* 4*d.* is expected to rank, against assets 68*l.* 0*s.* 10*d.*

In reply to Mr. Hough, Official Receiver, the bankrupt stated that he commenced business in May, 1886, as a chemical-manufacturer, at Phipp's Wharf, Wandsworth, under the style of Hill Brothers & Co. He was then in partnership with a Mr. Hill and a Mr. Edwards. From 1886 to August, 1891, he traded in partnership with various persons, but from the latter date until September, 1893, he traded alone under the same style as formerly. He then, finding he could not continue without further capital, placed his affairs in the hands of an accountant, who prepared a rough statement, which showed that he was insolvent to the extent of 500*l.* The principal creditors were then consulted, and it was decided to convert the business into a limited company, the cost being borne by the company. A prospectus was issued, but the public were never invited to become subscribers. The secured and unsecured liabilities at that time amounted to 4,000*l.*, which had since been reduced by about 400*l.*, paid off by witness. Under the conversion arrangement the company took over the assets and the business as a going concern, and gave witness shares of 1,000*l.* for his interest therein. He had since received 290*l.* cash on sale of shares. The goodwill could not be deemed valuable, and the plant and effects would not have fetched more than 100*l.* After the sale to the company witness's only assets were the shares allotted to him. He must have been insolvent since 1892. Generally speaking he thought that sufficient profits had been

made on the trading to meet expenses, including his drawings. The only reason for not making out proper balance-sheets after June, 1891, was that he was too busy to prepare them.

Mr. Hough: Was it not that you feared the result?

The bankrupt said that certainly was not the reason. It was only in September last that he realised his insolvent condition, although it was true that he had been pressed for money for some time past. Under the arrangement with the company witness was to have a weekly salary of 4*l.* and 10 per cent. of the profits as manager and secretary.

Mr. Hough: But when you parted with your assets, how did you expect to pay off your liabilities?

The bankrupt, in reply, said he expected to realise the shares given him as consideration for the business; further, he looked forward to doing a larger trade with the assistance of the new capital, and to thus make an income sufficient to enable him to meet all his liabilities. The amount due to his late partner in consideration of retiring from the business was 200*l.* Witness still acted as secretary, but as no profits had been earned, he had not received anything under the 10-per-cent. clause. The failure was due to excessive interest charged on loans, to law costs, and to the fact that his expenditure had exceeded his income. His personal and household expenditure had been at the rate of 210*l.* or 220*l.* per annum. Mr. Harker had advanced him money since 1887 or 1888.

Mr. Hough questioned the bankrupt at some length respecting the pressure by creditors and the date when he was first served with summonses and writs. He was also examined with regard to the disposal of the shares allotted him by the company, but was unable to give all the information required, and eventually the hearing was adjourned to July 6, to enable an account of the transactions to be furnished.

Gazette.

PARTNERSHIP DISSOLVED.

Pollard, J. T., and **Clegg, E.,** Soothill, near Dewsbury, under the style of Clegg & Pollard, aërated-water manufacturers.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Barnes, James, Darwen, mineral-water manufacturer.

Carr, Walter Paterson (trading as W. Graham, Carr & Son), Berwick-upon-Tweed, chemist and cod-liver oil manufacturer.

WERNER states that the addition of a few drops of alcohol or castor oil greatly facilitates the mixture of Peruvian balsam and vaseline.—*Nat. Drug.*

CHEMISTRY OF THE SEVENTEENTH CENTURY.—At the closing meeting of the Philosophical Society of Glasgow recently Professor Ferguson submitted a paper on "Some Early Treatises on Technological Chemistry." At the beginning of the seventeenth century chemistry was pursued in Paris under the name of pharmacy, by a man named Jacques Gohory, whose physic-garden ultimately formed part of the Jardin des Plantes. At the same time in the garden there was founded a school of medicine. The first occupant of the chair of chemistry in that school was a Scotsman named William Davisson, who was succeeded by Lefebvre, who afterwards came to be chemist at St. James's. At the same time there was a man outside this school named Jean Beguin (John Beguinus). The practice of the teachers at the time was to dictate to their students, and in order to save himself the trouble of dictating and his students the trouble of writing, so that they might attend to the demonstrations, he wrote a book, which was printed privately. Professor Ferguson had obtained a copy of this edition, which he exhibited. This copy was pirated at Cologne. This led Beguinus to publish an edition of the textbook which appeared in 1612; it was originally written in Latin, and in 1615 a French edition appeared. In 1669 an English translation was published. The textbook had a large circulation, having altogether gone through no fewer than fifty-three editions. Beguinus's book was an indication of the energy that was expended on the study of chemical science during the seventeenth century. —*British Medical Journal.*

Business Changes.

MR. J. F. COLE has sold the Bristol Road Pharmacy to Mr. H. R. Broad, late of Longton, Staffordshire.

MR. W. DOLLERY has retired from the firm of Sharp Brothers, 12 and 14 Southampton Row, W.C., owing to ill health.

MR. GEORGE R. FISHER (from John Bell & Co.) has purchased the business of the late Mr. B. Davis at 23 High Street, Leamington.

MR. H. ABBOTT, of Lowestoft, has disposed of his business (through the agency of Messrs. Berdoe & Co.) to Mr. A. H. Hinde, of Banbury.

MR. F. B. WOODDISSE, of Nottingham, has purchased (through the agency of Messrs. Berdoe & Co.) the business of Mr. A. Holmes, of Kenilworth.

THE business of the late Mr. W. Cottingham, chemist and druggist, 256 High Street, Lincoln, will in future be carried on by the executors of the estate.

MESSRS. POWELL & SON, of 4 Jewry Street, Winchester, have disposed of their business to Mr. S. G. Bartlett, of Torquay. Messrs. Berdoe & Co. conducted the transfer.

MR. T. C. GROSVENOR, late of South Kensington, has purchased (through the agency of Messrs. Berdoe & Co.) the business of the late Mr. Frederic Thompson, Boundary House Barnet.

MR. WILLIAM BRIGGS, of Wandsworth Road, S.W., has disposed of his business to Mr. E. B. Jeffery. Messrs. Berdoe & Co. conducted the transfer, and valued for both parties.

THE business carried on by Mr. E. M. Evans at 21 High Street, Dorking, has been purchased by Messrs. S. Row & Co. The transfer was carried through by Messrs. Berdoe & Co., of London.

THE business of Mr. T. A. White, 110 High Street, Winchester, has been purchased by Mr. J. Garnett, of Kendal. The transfer was carried through by Messrs. Berdoe & Co., of London.

MESSRS. H. E. CRAVEN AND W. J. CRAVEN have succeeded to the business of the late Mr. G. W. Chadwick, of the West Cliff Pharmacy, Whitby, and are trading under the style of Craven Brothers.

MR. H. R. PROCTER, chemist, of 113 The Grove, Hammersmith, has sold his branch business at 2 Chichester Street, Upper Westbourne Terrace, to Mr. F. S. Horsey, his late manager. Mr. Horsey took over the business on Monday, June 25.

LAST week, at Gainsborough, Messrs. Edward Bailey & Son offered for sale the dwelling-house, shop, warehouses, and other premises occupied by Messrs. Burrows, chemists and druggists, and having a frontage to Market Street of 106 feet, and to the Market Place of 23 feet. The property was knocked down to the tenants at the sum of 3,600*l.*

MR. WILLIAM SHEPPERSON, the managing director of the Liquor Carnis Company (Limited), was the purchaser of the trade premises, Billinborough, Lincolnshire, lately advertised in this journal, at the sale held on June 21. Mr. Shepperson, we believe, purchased for investment. There is a chemist and druggist business, with post-office attached. The business is now being carried on by Mr. Essam, who has been engaged in it, as apprentice and assistant to the late Mr. Smith, for the past thirty years.

WISE MEN OF THE WEST.—An Indiana druggist found a pocket-book in his store, and thought somebody was trying to play him a trick, for he never thought of opening it. His wife did, though, and found $2,000 in cash inside. Another Indiana druggist, in order to clean out the soot from his chimney, put a can of powder up the chimney, and ignited it. The chimney was cleaned, and the druggist is in the hands of surgeons.

New Companies and Company Reports.

THOMPSON & CO. (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To take over and carry on the business of wholesale and retail chemists and druggists, chemical-manufacturers, patent-medicine vendors, &c., presently carried on by Thomas Thompson at No. 97 Prince's Street, Edinburgh. The following are the first subscribers, and they take one share each:—Thos. Thompson, chemist's assistant, 97 Prince's Street, Edinburgh; Mark Foggitt Thompson, chemist, 17 Gordon Street, Glasgow, and Selina Kemp Thompson, his wife; Robert Douglas Spittal, contractor, 1 Maxwell Drive, Pollockshields, Glasgow, and Jane Brown Spittal, his wife; Thomas Holtum Lillie, solicitor, 132 West Regent Street, Glasgow; and Wm. Forbes Robertson, solicitor, 132 West Regent Street, Glasgow. The memorandum of association is lodged without articles of association.

FOREIGN CHEMISTS (LIMITED).—Capital 52,000*l.*, in 10*l.* shares. Objects: To acquire and carry on the businesses of chemists and druggists now carried on by J. J. Snook, at 239 Oxford Street, London, under the name of Wilcox & Co., and at 49 Haymarket, London, under the name of Gabriel Jozeau, and to carry on business as chemists and druggists, wine, spirit, and general merchants, &c. The first subscribers (who take one share each) are:—J. J. Snook, 13 Hanover Terrace, N.W., chemist; George Whiffin, Woodleigh, Sutton, Surrey, accountant; W. H. Thomas, 239 Oxford Street, W., chemist's assistant; V. Smirnoff, 49 Haymarket, S.W., chemist's assistant; Edith Snook, wife of J. J. Snook; E. Harvey, 17 and 18 Basinghall Street, E.C., clerk; W. E. Mallett, Wells Road, Bath, jeweller. The first director is Mr. J. J. Snook, who will also appoint the other directors. Registered office, 239 Oxford Street, London, W.

WARE'S ECZEMA AND ANÆMIA CURE COMPANY (LIMITED).—Capital 8,000*l.*, in 1*l.* shares. Objects: To acquire the benefit of certain remedies for the treatment of eczema and kindred skin-diseases, and carry on the business of wholesale and retail chemists, druggists, merchants, &c. The first subscribers (who take one share each) are:—C. Major, Bridgwater, merchant; J. Ware, Bridgwater, specialist; Louisa Ware; Agnes L. Green; T. H. Willis, St. Mary's Street, Bridgwater, contractor; Anne E. Willis; J. Wright, Ingram Road, East Finchley, merchant. The first directors are to be appointed by the subscribers. Qualification, 100*l.*

PARKE'S DRUG-STORES (LIMITED).—Capital 100,000*l.*, in 8,000 preference shares of 5*l* each, 57,000 ordinary shares of 1*l.* each, and 3,000 deferred shares of 1*l.* each. Objects: To acquire and carry on the business of Parke's Drug-stores, carried on at the Electric Avenue, Brixton, 313 Lavender Hill S.W., and 120 Rye Lane Peckham. The first subscribers who take one share each) are:—J. Murison, 39 St. John's Park, N., manufacturing chemist; J. F. Fuerst, 17 Philpot Lane, E.C., drug-merchant; P. W. Davis, 61–2 Fore Street, E.C.; C. Hoddin, Tower Chambers, Moorgate Street, E.C., solicitor; J. J. Hatt, Upper Holloway, solicitor; A. F. Rooth, Lavender Hill, S.W., clerk; H. W. Agate, 120 Walworth Road, S.E., clerk. Messrs. A. Chatto, P. W. Davis, J. Fuerst, and J. Murison are to be the first directors. Qualification, 250*l.* Remuneration, 100*l.* per annum each, with percentage. Registered office, 21 Prince's Street, Oxford Street, W.C.

METROPOLITAN DRUG COMPANY (LIMITED).—Capital 5,000*l.*, in 1*l.* shares. Objects: To purchase the business of pharmaceutical chemists carried on by F. C. Fernando and the Fernando Drug Company (Limited), at 3 Victoria Buildings, Pimlico, and to continue this undertaking. Registered without articles. The first subscribers (who take one share each) are:—T. Pott, Wordsworth Avenue, East Ham, gentleman; W. H. Burgess, 8 Colfe Road, Forest Hill, gentleman; A. Mother, 17 Marsham Street, S.W., metal merchant; H. Hampton, 14 Great Castle Street, W., tailor; J. T. Kinburn, 3 Clinton Road, Tottenham, gentleman; H. H. Clarke, Mackenzie Road, Beckenham, gentleman; A. G. Trapp, 47 Mark Lane, E.C., wine merchant.

MCKENZIE (LIMITED).—Registered in Dublin. Capital 25,000*l.*, in 6,250 shares of 4*l.* each. Objects: To acquire and take over as a going concern the undertaking of McKenzie & Sons, Cork (Limited), and all or any of the assets and liabilities of the company, and to carry on the trade or business of manufacturers of chemical or artificial manure and feeding-stuffs, agricultural implements, and machinery. The first subscribers (who take one share each) are:—W. McKenzie, 212 Great Brunswick Street, Dublin, merchant; J. B. McKenzie, Lower Glanmire Road, Bellevue Road, Cork, merchant; G. St. Clair McKenzie, Bellevue Terrace, Cork; T. Lindon, 5 Camden Quay, Cork, merchant; R. Gregg, 67 South Mall, Cork, solicitor; A. Magner, South Mall, Cork, solicitor. The first directors are Messrs. W. McKenzie, J. B. McKenzie, G. McKenzie, M. McKenzie, and T. Lindon. Qualification, 200*l.* Remuneration, 200*l.* per annum divisible. Registered office, 4 Camden Quay, Cork.

LEVER BROTHERS (LIMITED). — Capital 1,500,000*l.*, divided into 75,000 preference shares and 75,000 ordinary shares of 10*l.* each. Objects: To acquire the business carried on at Port Sunlight, Cheshire, and elsewhere, under the style of Lever Brothers (Limited), and to carry on business as soap and candle makers, seed-crushers, paper and varnish makers, and tallow, oil, glycerine, chemical, paint, dye, colour, &c., manufacturers. The first directors of the company are W. H. Lever, J. D. Lever, James Lever, and P. J. Winser. Qualification, 1,000*l.*; remuneration to be determined in general meeting.

THE CONTINENTAL OXYGEN COMPANY.—In the Chancery Division of the High Court, on Wednesday, before Mr. Justice Chitty, Mr. Percy Wheeler appeared in support of a motion for the appointment of a receiver and manager in the matter of the Continental Oxygen Company (Limited). The learned counsel said his clients, the executors of Mr. John Dewhurst, held 12,000*l.* debentures out of an issue of 15,000*l.*, and default had been made in the payment of both principal and interest. His Lordship appointed the Chairman of the company receiver and manager, to act in the latter capacity for a period of six months.

THE UNITED ALKALI COMPANY.—According to the *Financial News* certain important changes have lately taken place in the share-register of the United Alkali Company. The last annual return filed at Somerset House is made up to the end of March last. Our contemporary has been examining it, and finds that directors, vice-presidents, and a few large shareholders—mostly persons who either are or have been in the chemical-trade—have transferred original holdings of ordinary and preference shares to the amount of close upon half-a-million. If the position of the company is satisfactory, and these transfers of leading holders do not represent a quiet preparation for troublesome times, some authoritative and reassuring statement and explanation should be forthcoming, or the price of the shares will go still lower than the uncomfortable figure to which they have already dropped. A correspondent suggests the following reason for this selling out:—Bleach is now being produced by the Wallis process at the works of Messrs. Sadler & Co., of Middlesborough, in competition with that made by the Weldon process, of which the United Alkali Company has the virtual monopoly, and which has been the mainstay of that concern for years. The Wallis process, as perfected by Sadler and Wilson, works automatically and well; there is no appreciable loss of nitric acid, and no undue excess of useless sulphate of soda is produced. Moreover, it is claimed that the initial cost of plant is reduced to one-third of that required for working by the Weldon method, while a corresponding saving is effected in fuel, labour, and raw material. Some of the best-known men in the chemical world are interested in the Wallis Chloride Syndicate, which owns the whole of the patents, and it would appear almost good enough to follow its lead.

THE following advertisement recently appeared in an American newspaper:—"Wanted.—Healthy left male arm from shoulder down; subject must be white and between 25 and 35 years old; arm to be amputated two inches below shoulder-joint and grafted on another man's body. Will pay handsome price. Apply to the surgeon, Dr. ——, —— Street Birmingham, Ala."

MARRIAGES.

ATHERTON—MOTLEY.—On May 8, at the residence of the bride's uncle, North Rockhampton, Queensland, Australia, by the Rev. T. Ellison, of Mount Morgan, William Atherton, late dispenser at the Port Curtis Hospital, Rockhampton, youngest son of the late Mr. John Atherton, of Wigan, Lancashire, England, to Ealey (Lilly), eldest daughter of Mr. Smith Motley, late of Covenham Grange, Louth, Lincolnshire, England.

AUSTEN – NIX.—On June 21, at St. Mary's, Billericay, Mr. Wm. Austen to Miss Jessie Eliza Nix, daughter of Mr. John K. Nix, of Billericay, pharmaceutical chemist.

HOWDEN—WAKEFORD.—On June 20, at Llandaff Cathedral, by the Rev. J. R. Buckley, Frederick Clair Howden, chemist and druggist, of Tufnell Park, N., to Ethel Maude, youngest daughter of the late Charles Wakeford, of Freeland House, Cardiff.

KIDD—WELCH.—At Young's Rooms, Dundee, on June 25, by the Rev. Archibald Bell, D.D., Andrew Kidd, chemist and druggist, to Maggie, younger daughter of Alexander Welch.

MILLER—NICOLL.—At Athole House, Stanley, Perthshire, on June 20, by the Rev. James F. Thomson, M.A., Free Church, Thomas Miller, chemist, Portobello, to Jane Helen, younger daughter of the late John Nicoll.

SAUL—ALLSOP.—On June 5, at St. Peter's Parish Church, Brimpton, by the Rev. W. H. A. Lee, M.A., brother-in-law of the bridegroom, assisted by the Rev. C. J. Taylor, B.A., John Edward Saul, pharmaceutical chemist, of London, to Florence, third surviving daughter of George Allsop, of Blacknest, Brimpton, Berks.

SILVER WEDDING.—On June 24, 1869, at the Church of St. Catherine Cree, City, Dr. John Muter, F.R.S.E., to Hannah Sewell Bailey, Alford, Cavendish Road, Clapham Park, S.W.

DEATHS.

EVANS.—On June 13, Ivor Evans, chemist and druggist, of Aberdare. Aged 25.

HULLE.—Mr. Jacob Hulle, formerly the proprietor of the chemical-works in Battersea now owned by Mr. Thos. Whiffen, died on June 26 at his residence, 4 Wemyss Road, Blackheath, aged 82. Mr. Hulle succeeded Mr. Edward Herring in the proprietorship of the chemical-works in question, and retired in 1868 in favour of Mr. Thos. Whiffen, who had been connected with the factory as manager and chemist under both its previous proprietors since 1854. Mr. Hulle was not a chemist himself but a business man, and was well known to the older generation of druggists.

WILLIAMSON.—The death is announced of Mr. H. A. Williamson, late manager for Dr. Rooke & Co. (Limited). Deceased died very suddenly at his residence at 3 Beulah Terrace, Scarborough, at the age of 56 years. Mr. Williamson was a native of Gainsborough, and served his apprenticeship as a chemist and druggist at Hull. In 1861 he commenced business at Scarborough, in Bar Street, and subsequently in North Marine Road. Afterwards he went to London as agent for Dr. Rooke, and later returned to Scarborough as manager of the local business, resigning last December. He was one of the oldest Freemasons in the district, and was Past Provincial Grand Registrar of the North and East Riding of Yorkshire.

CONSUMPTION OF SALT IN THE ALKALI-TRADE.—The amount of salt decomposed in the manufacture of alkali by the Leblanc and ammonia-soda processes in 1893 was 817,171 tons, a net decrease of 7,319 tons, no doubt partly caused by the coal-strike. Though the net result shows a decrease, it is a noteworthy fact that the decrease in the quantity decomposed by the Leblanc process amounts to 52,031 tons, while the ammonia-soda process shows an increased consumption of 44,712 tons.

Pharmaceutical Society of Great Britain.

NORTH BRITISH BRANCH.

THE first meeting of the newly elected executive of the North British Branch was held at 36 York Place, Edinburgh, on Thursday. Mr. J. Laidlaw Ewing presided, and the following other members were present: Messrs. Lunan, Henry Noble, and Gibson (Edinburgh), Nesbit (Portobello), Davidson (Montrose), Sutherland (Dumfries), Currie (Glasgow), Kerr (Dundee), Fisher (Dunfermline), and Strachan, Johnston, and Paterson (Aberdeen). Apologies for absence were intimated from Messrs. McAdam, Kinninmont, Hardie, and Storrar.

The first business was the election of Chairman. Mr. Johnston moved the re-election of Mr. Ewing, who he said had hitherto discharged the duties pertaining to the position with marked ability and with great success. The nomination was seconded by Mr. Currie, and unanimously agreed to. Mr. Ewing briefly thanked the meeting. On the motion of Mr. Paterson, seconded by Mr. Sutherland, Mr. Kerr was re-elected Vice-Chairman.

The Chairman, Vice-Chairman, and the local members of the executive were elected as a General Purposes Committee.

Referring to the new premises, the Chairman said it was expected they would be ready for occupation at the end of October, and as it was an event of some importance it would perhaps be well to mark it in some way. He proposed that the matter be remitted to the General Purposes Committee. The motion was agreed to.

The arrangements for the evening meetings for next session were remitted to the Chairman and Mr. Rutherford Hill.

The Chairman next mentioned the nomination of examiners, and said that as there was to be a considerable change in the character of the examinations it would be advisable to have a special committee appointed to go into this matter. He moved that the Chairman and Vice-Chairman, and two members of the London Council, with Messrs. Currie, Strachan, Kermath, and Neshit, be appointed; Mr. Lunan seconded. A long discussion took place regarding the proposal of the Council of the Society that two of the examiners should be recognised teachers. Mr. Paterson considered that the step taken by the London Council was a serious matter for the young men in the trade, as it would add greatly to their expenses. He did not think it wise to alter the present system, and the voice of the trade in general should be taken on the proposal. Mr. Gibson objected to bringing in outside men who were not acquainted with the trade. Examiners of candidates should not be purely scientific men. Mr. Lunan thought the examination would be easier with the outside men as examiners, and Mr. Noble added that a professional examiner could put his questions in a way which was simpler and more intelligible to the students than ordinary examiners.

The motion was ultimately agreed to.

Some conversation took place regarding the sale of poisons, and the reference made to the matter recently by Mr. Carteighe. Mr. Currie said that Mr. Carteighe had, of course, only expressed his own opinion; but, if it were correct, it would be a serious matter for Glasgow chemists. If he refused to sell Fellows's syrup without obtaining the signature of the customer, the latter would probably go to the next chemist and get what was wanted without signing.

The Chairman suggested that their local Association should prosecute where a chemist supplied such a preparation without signing.

Mr. Lunan gave notice that at next meeting he would submit a motion that they make a recommendation to the Council to improve the Pharmaceutical Journal by making it more popular.

Mr. Currie said that the recent decision in the Court of Justiciary regarding the sale of poisons by unqualified assistants in doctors' shops in Glasgow had given great satisfaction to Glasgow chemists. But it did not seem to have affected the surgeries nor the opening of shops by unqualified men. If Mr. Hill could come to Glasgow he would get plenty of work in the way of instituting proceedings, and he would get every support from the legitimate trade. The Chairman said they should send in accurate information to the Council. This was all the business of importance.

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Editorial Comments.

THE SPIRIT-DUTY AND CHEMISTS.

THE extra sixpence on proof spirit against which we have so vainly protested is now imposed upon the trade for a year certain, and in all probability for ever. This, in the view of those "most fit to represent the trade," is exactly as it should be. Such authorities—according to Mr. Charles Townsend, the one pharmaceutical member of the House of Commons—did not desire that the reduction of taxation asked for on their behalf by Mr. Grant Lawson and one or two others should be made. Mr. Townsend speaks with great personal authority from an experience of forty years of the drug-trade, wholesale and retail, and he supports his assertion by the insuperable argument that the Pharmaceutical Society of

Great Britain also do not desire that the relief should be granted. It was impossible to seriously argue the question after such a statement, and we are not surprised that Mr. Lawson's motion was negatived without a division. Chemists and druggists all over the country had been writing earnestly to their Parliamentary representatives about this unfair tax; but the bottom was ruthlessly kicked out of their case when it appeared that Mr. Townsend, and the Pharmaceutical Society, and everybody "most fit to represent the trade" discouraged the agitation. How could members of Parliament with no special technical knowledge argue against such a force as that? We tender to Mr. Lawson, however, and to the few members who supported him, the hearty thanks of that section of the trade—the minority, we suppose it must be called—who did not so earnestly desire to pay an unfair proportion of the increased taxation of this country.

Sir William Harcourt's monstrous assertion that a division on this subject would be the most unjustifiable one that ever was taken for the purpose of breaking down the revenue is scarcely worth notice. It would be, of course, absurd to reply to it. The Chancellor had just succeeded in disposing of all the really formidable opposition to his Finance Bill, and it may be that this final objection, the justice of which even he has never denied, was a little irritating. At any rate, it was obvious that the chemists' plea came from a disorganised body, and the opportunity of treating it with contempt was, perhaps, a temptation too great for a politician of Sir William Harcourt's calibre to resist.

Dr. Tanner, who divided the House of Commons on the same subject when Mr. Goschen added the previous sixpence, promised us some time ago that he would move a similar amendment on this occasion; but it is fair to him to add that he reserved himself by stating that he would not undertake to do anything at this time which would embarrass the Government. Other members of Parliament on both sides, we know, sympathised with the object which Mr. Lawson, Mr. Butcher, and Mr. Morton had in view, and would probably have given practical proof of their sympathy if they had had the opportunity. For ourselves, we can only apologise to the Government for having desired to embarrass them on this subject, especially now that it is proved how little we understood the temper of the trade, and how unfit we were to represent it.

We congratulate the Pharmaceutical Society on the accomplishment of their heart's desire, and we trust that they will receive the cordial support of all those chemists who are yearning so keenly to be overtaxed.

PHARMACY LEGISLATION IN FRANCE.

The British pharmacist, whose complaints of the absence of sympathy with his condition manifested by the Parliamentary Jupiter are so persistent, should betake himself to the goodly land of France. If Parliamentary attention and sympathy he all he desires, he would find there the milk of the one and the honey of the other in veritable floods. From King John, who, in 1353, ordained the inspection of pharmaciens, there was scarcely a reign in which some new enactment having relation to pharmacy was not recorded. The only one idea which never occurred to any French statesman was that pharmacy, as a profession, might be left to run alone. And the first great French Republic, which looked at most things in a new light, and overturned nearly everything that came in its way, the Repuhlic which had no use for Lavoisier's experiments, still treated the ark of pharmacy with reverence. The Republican Parliament promulgated quite a number of decrees regulating the practice of pharmacy, and ultimately codified the whole of French legislation on the subject, in the famous law of 21 Germinal, year XI. (April 11, 1803), under the title of "Organic Law of Pharmacy." This wonderful law, which has been modified, completed, and explained by about 120 supplementary ordinances and decrees, and has been riddled by innumerable and often incompatible legal decisions, still lives. It is the statute under which pharmaceutical proceedings are almost invariably taken, and, unsuitable as it is in many details to modern times, it yet, in principle, defines the ordinary French ideas in regard to pharmacy.

We should not care to be rash enough to enumerate the attempts which have been made in every French Parliament since that of the year XI. to substitute a new law for the admittedly defective Germinal one. We have ourselves reported a goodly number, and in the report of the commission appointed by the French Senate to examine the Bill which the Chamber of Deputies adopted last year, reference is made to eight formal reports of projects brought before various Parliaments since 1881. Such eminent politicians as MM. Dubost, Hippolyte Faure, Frebault, Delattre, Naquet, Lockroy, and Duval have been responsible for one after the other of these Bills; and a series of most ably-written essays on pharmacy generally is the result of their efforts, these appearing either as explanatory introductions or as committee reports. The report now before us, presented to the Senate by M. Cornil on behalf of an influential committee, is by no means the least important of the series. It analyses the Bill with extreme care and in a spirit of friendly regard towards pharmacists, of which the latter can have no reason to complain. The authors of the Bill and the committee which has examined it make no secret of their desire to protect the practitioners of pharmacy; their principal difficulty seems to be to moderate that protection so as not to trespass on the protection which they also desire to assure to other professions. For instance, one very delicate point is the permission to medical men in country districts to keep and supply medicines to patients, but only when there is no pharmacien within a certain distance of the doctor's or of the patient's residence, as the case may be. That distance was fixed by the Chamher of Deputies at four kilometres; the Senate Commission think it ought to be six kilometres. In all cases doctors are to be allowed to keep certain scheduled drugs for use in emergencies.

One of the principal objects of the Bill is the suppression of pharmaciens of the second class. Those students who have got to a certain point in their curricula are to be allowed to proceed to their certificate, but ultimately it is intended that all qualified pharmaciens shall he of the first class only. The second-class pharmacien, it was originally supposed, would, as a rule, settle in such rural districts as would not satisfy the ambition of the first-class man. M. Cornil sagely remarks that, if anything, the people in thinly-populated districts need the more educated man the most. The pharmacien of the small places, he says, is the only person who can he looked to for analysis of foods, waters, poisons, and generally the only person with chemical knowledge. And, having decided that there shall be only one class, it was found essential, in view of the development of science, to level up rather than down.

That the suppression of the second-class certificate is a step of considerable importance is evident from the following statistics:—There were in 1891 in France 8,013 pharmaciens, of whom 2,711 were of the first and 5,302 of the second class. This was an increase, as compared with 1886,

of 393 first and 511 second class pharmacists. It appears, therefore, that though the proportion of first-class to that of second-class men is as nearly as possible that of one and two, the former are increasing at a slightly more rapid ratio.

Provision is made for foreign pharmacists. They are in all cases to pass the final examinations, but powers are reserved for dispensation from the preliminary steps if the equivalents have been taken elsewhere.

No partnership or company except of qualified men is to be allowed to practise pharmacy; and in the manufacture of and wholesale trading in "pharmaceutical compounds and preparations" the manager is to be a qualified pharmacist. This provision is not to apply to wholesale dealing in simple drugs nor to the manufacture of chemical products.

A pharmacist's widow is to be allowed to carry on his business with the aid of a qualified manager for a year. The Senate Commission propose to allow a delay of two years in cases where the deceased pharmacist has left a son who has completed a certain portion of his curriculum.

Arrangements between pharmacists and doctors, whereby the latter are to derive any profit from the sale of medicaments are declared void; veterinarians are not to keep open-shops; herbalists are not to be suppressed. Hospitals, mutual associations, and charitable institutions are to be allowed to keep a pharmacy, but only for the supply of medicines to their associates or to employés; and this pharmacy must always be in charge of a qualified pharmacist

The law of year XI. forbids a pharmacien to sell any remedy except on the order of a doctor. This prohibition has been rather freely interpreted; the new law proposes to schedule such medicaments as may only be supplied on medical orders. The trade in specialities is an important one. The clause adopted by the Chamber required that the exact formula of any speciality should be deposited with the Academy of Medicine, and such formula should be open to the inspection of any French pharmacien who should be at liberty to prepare a similar medicine provided that he duly respected trade-mark rights. The Senate Commission think this might lead to a good deal of counterfeiting, "surtout à l'etranger"—especially abroad. They therefore limit the requirement to a statement on the label of each article of its active ingredient or ingredients.

We shall endeavour in a subsequent article to examine more closely some of the features of this interesting document.

ACCIDENTS WITH EXPLOSIVES.

The Annual Report by her Majesty's Inspectors on the working of the Explosives Act for the past year gives evidence not only of the efficiency of the Act, but also of the rigid manner in which the various safeguards are enforced by the inspectors. Fatal accidents by fire or explosion in manufacture, so far as these come under the control of the Acts, numbered 6 in 1893, which is a slight increase on the ten years' average, which was 5·9. Considering that 127 factories are reported upon, exclusive of those where small and toy fireworks are produced, this does not seem high in so risky a business. It is very much lower than was the case before the Act came into operation, when the output was nothing like so large. A large proportion of of the accidents reported are due either to spontaneous combustion or to the sensitiveness of the sulphur-chlorate mixtures to friction and percussion. So great, indeed, has the danger of the sulphur-chlorate mixture been found to be in the manufacture of fireworks that the inspectors intimate that an order under the Act will shortly be issued by the Secretary of State prohibiting the manufacture or importation or sale of any fireworks containing the mixture, except with the express authority of a Government inspector.

Among the accidents recorded in the report several may be quoted as of special interest to pharmaceutical readers. A striking instance of sensitiveness occurred at Nobel's Stirling factory, when about 5 oz. of "priming-composition," consisting of sulphide of copper, phosphide of copper, and chlorate of potash, was exploded through friction from a hardened drop of shellac varnish which had dropped on the table. An explosion of peroxide of sodium suggested a series of experiments which proved that peroxide of sodium is in itself a perfectly stable body. When, however, the peroxide is mixed, or even in contact, with any combustible substance, it becomes at once highly dangerous, the addition of water causing instantaneously either an outbreak of fire or an explosion. An accident in the City Road was due to the fumes of ether and alcohol coming into contact with a gas-jet. It was found on examination that a bottle containing about ½ lb. of ether and alcohol had burst, owing to the high temperature of the day and the proximity of the gas. The vapours came in contact with the gas-jet, which was burning at a distance of about 30 inches from the bottle, igniting the contents. A serious fire was avoided by the gas being promptly turned off. The manufacture of xylonite, or, as it was originally called, celluloid, was the origin of another fire. The following is an occurrence which should be noted by amateur manufacturers of coloured fires. A Manchester professor of chemistry was carrying with him on the Manchester, Sheffield, and Lincolnshire Railway, a mixture for producing a coloured fire ("Bengal fire") on the occasion of the Duke of York's wedding. The mixture was in a bottle placed in a leather bag, on the middle seat of the compartment of a first-class carriage, when, just as the train was being pulled up, the explosion occurred, and the three passengers in the compartment, including the professor himself, were injured. The composition, it appeared, contained unwashed flowers of sulphur and chlorate of potash. This was an undoubted and very interesting case of spontaneous ignition, the risk from which, in the case of mixtures of this sort, has long been recognised and frequently called attention to by the chemical adviser of the department. Although the whole case was attended with various illegalities, the railway authorities consented, under the circumstances, to withdraw proceedings.

SPIRITS FOR MEDICAL USE.

In the House of Commons on Wednesday afternoon in the course of the discussion on clause 24 of the Finance Bill, which clause proposes additional customs duties on spirits imported into Great Britain and Ireland,

Mr. A. C. Morton, M.P. for Peterborough, moved an amendment with the object of exempting from the increased duty spirits taken out of bond for *bonâ fide* medical purposes.

Sir William Harcourt said: The Government cannot possibly accept this amendment. The hon. member must see that it is open to much practical objection. It would be impossible to tell when spirit was taken out of bond for what purpose it was intended or to what use it would be put.

Mr. Jeffreys: I suggest to the hon. member that he should withdraw the amendment in order to enable a division to be taken on the later amendment which stands in the name of the member for York (Mr. Butcher) and is not open to the objection just made by the Chancellor of the Exchequer.

Mr. Morton: I do not think the difficulty would be as great as the Chancellor of the Exchequer thinks, but since the right hon. gentleman says that the amendment could not be carried into effect I will withdraw it.

The amendment was then withdrawn.

Mr. Grant Lawson, M.P. for the Malton Division (for Mr. Butcher) then moved to insert the following amendment: "Provided that on all spirits used in the preparation or making up of medicines or drugs for medical purposes, a drawback of sixpence per gallon shall be allowed." He said: This amendment was framed for the purpose of meeting what we realise to be a difficulty—the very difficulty which has just been mentioned by the Chancellor of the Exchequer. He thought that it was highly probable that the member for Peterborough would be met by the objection that when the material was taken out of bond it could not be said what purpose it would be applied to. The member for York's amendment only proposes to give a drawback equivalent to the increase of the duty when the spirits have actually been used in the preparation or making up of medicines or drugs. I do not suppose that it will be imagined that this would lead to any kind of evasion—that any persons would be desirous to take whiskey mixed up with some medical decoction merely so that they might get it for less money, as I understand is sometimes done in the United States. The amendment contemplates that the spirits shall *bonâ fide* be used for the preparation or making of medicines or drugs. An hon. member (Sir D. Macfarlane) on a previous amendment told the House that he had heard no complaints from distillers amongst his constituents as to the increase in the duty. But I think there is not a member of this House who has a chemist amongst his constituents—and who has not?—but must have received a complaint against this extra impost. (Hear, hear.) The chemists regard this as practically a form of direct taxation on one particular trade. The amount in which they sell their drugs is so exceedingly small that it is impossible for them to shift the tax on to any other persons whatever. They are bound to pay it themselves. Thus it comes within one of the most rigid definitions of a direct tax. I may remind the Chancellor of the Exchequer that some drugs are used as an antidote to the over-free use of spirits. ("Hear, hear," and laughter.) The Chancellor of the Exchequer will get considerable revenue from those who indulge to excess, and it seems hard that when afterwards they take medicine for the sake of relief, the spirit which may have been required in preparing that medicine should be taxed. (Laughter.)

Sir William Harcourt: I am afraid that I cannot agree to take the duty off. It is not heavy. Even if paid by the consumer, any person who indulged in a gallon of drugs would only pay 6*d*. (Laughter.) And then there is the difficulty of working such an arrangement. How in the world are the Excise officers to tell whether the spirits are used for really medical purposes? What are medical purposes? (Hear, hear) The hon. member for Inverness-shire said, some time ago, that the drinking of Scotch whiskey was a medical purpose. (Laughter.) It is perfectly impossible that you should discriminate in a case of this kind. It would impose on the revenue officers a task which could not be fulfilled. And, after all, the evasion of the duty which would result would be considerable, and the revenue would suffer in proportion.

Mr. Grant Lawson: If the retail chemists heard the speech of the right hon. gentleman their fears would be increased, for, if to give them this drawback is to cut down the revenue to an enormous extent, it must follow that it is an enormous burden that is to be imposed.

Sir William Harcourt: No. I was referring to the way in which the revenue would be defrauded by spirits being used ostensibly, but not really, for medical purposes.

Mr. Grant Lawson: The Chancellor of the Exchequer asked what are medical purposes. On other parts of the Bill we have been told that in cases of dispute the courts would define what was meant. I do not think that any court would define Scotch whiskey as a medicine or a drug. Besides, it is not on the drug that the drawback is to be given, but on the spirit contained in the drug. If this is the attitude of the right hon. gentleman, I can only say that I shall think it necessary, in the interests of the retail chemists, to divide the House on the amendment. Its importance has been impressed upon me by many of my constituents. I hope, however, before we go to a division, we shall hear some sounder argument than that this drawback would seriously injure the revenue of the country. I do not think that the Chancellor of the Exchequer has any figures with him to show the amount contributed by the spirits used in medicines and drugs.

Sir William Harcourt: There is one person that the hon. member has not managed to convince, and that is the late Chancellor of the Exchequer (Mr. Goschen), who has just this moment left the House. (Laughter.) It is idle to ask what is the amount now contributed from spirits used in this way. The question is, what would be the consequence of opening the door to frauds on the revenue for the sale of spirits under the pretence that the article was a medical preparation. To make the spirit a medical drug you would only have to put in extract of nutmeg or anything of the kind that was not unpalatable, and then you might claim the drawback on any number of thousands of gallons. The hon. member may go to a division, but if so it will be the most unjustifiable division that ever was taken for the purpose of breaking down the revenue.

Mr. Charles Townsend: I have had an experience of forty years in the wholesale drug trade, and I am convinced that those who are most fit to represent the trade do not desire that this reduction should be made. What with visits from the Excise officers and one thing and another it would create difficulties for those engaged in the business of wholesale or of retail chemists which would be insuperable. (Hear, hear.) The hon. member was understood to add that the Pharmaceutical Society would have raised a strong protest if they had desired this drawback, but at the present time they found great inconvenience even from a drawback on spirits used in pharmaceutical preparations sent abroad, owing to the trouble in arranging matters with the Excise. Any such exemption as was claimed would involve the constant attendance of revenue inspectors at every drug-factory in the kingdom. However desirable exemption might be, he could not see how it could be carried out practically. (Hear, hear.)

Mr. Walter Long: I entirely agree with the Chancellor of the Exchequer that the working of the amendment would be a source of enormous difficulties for the Excise in regard to collection and remission of duty, and that it would open the door to fraud. But although I hold these views I desire to repudiate the suggestion that this amendment was moved by my hon. and learned friend, or put on the paper by the member for York, with any desire to break down the revenue. Both my hon. and learned friend and the member for York have received assurances, not from dealers in liquors, but from chemists, that this law will fall heavily on them. It was on their behalf that the amendment was put down.

The amendment was negatived without a division.

Later, in the discussion on the clause applying the additional duty under excise, Mr. Butcher objected to this duty on the ground that it would tax spirits used for medical purposes.

The Chancellor of the Exchequer rose to order. The honourable and learned member was not present when an amendment on the same subject was moved on a previous clause. He gave his explanation on that amendment and it was negatived, and an understanding was then come to that the same question should not be raised both on the Customs and on the Excise duties.

The Chairman thought that any discussion on that subject would be out of order.

Mr. Butcher thought he might state his reasons for objecting to the clause. They all knew that spirits were used very largely for medical purposes. ("Order, order.")

The Chairman: I have already called the attention of the honourable and learned gentleman to the fact that such a discussion as he proposes to raise would be out of order.

KAPUTINE consists of acetanilide (antifebrin) coloured. It is an article which ought not to be used by persons unacquainted with its properties and the probable effects it may produce. Like several other of the new synthetic remedies, it should be added to the poison schedule, and its sale placed under proper regulation in the hands of competent persons. It appears highly improper and dangerous that such an article should be puffed and supplied as a quack nostrum without any label indicative of its nature to warn persons who might be injuriously affected by its administration.—*Brit. Med. Journ.*

The Royal Agricultural Society's Fifty-Fifth Annual Exhibition,

CAMBRIDGE, 1894.

"WOT line may you be exhibitin' in, mister?" asked the gentleman of whom, at Cambridge Station, I inquired my way to the show. He was a specimen of that yellow-coated, orange-gaitered, vermilion-complexioned gentry who are as familiar a feature at the show as the bannerets, the machinery in motion, and the popping of corks behind the stalls. He was evidently disinclined to believe my assurance that I was not an exhibitor, and intimated plainly that I couldn't be a paying visitor, or I would not choose the early morning of the opening day, when the cattle and horses were not yet on view, for my visit. Anyway, couldn't I manage to smuggle him through the gates somehow, for he was anxious to be on the ground, but didn't want to pay if he could help it? I regretted my inability to oblige, and presently caught sight of him once more in the act of trying to mollify the heart of the guardian at the live-stock entrance. No tale hangs to this gentleman. I shall probably never meet him on earth again, and I only introduce him because he put me right about the tramcar that runs to hard by the show gates. The Cambridgians have handsomely decorated their pleasant town in honour of the exhibition, but the local tramcar company appear to disapprove of the Venetian masts, flags, shields, and flowers, for they carefully prevent passengers from seeing anything of them by the simple device of pasting non-transparent advertisements all over the car-windows. Moreover, on the Cambridge tramcar, as on the road to Greenwich fair in Dickens's young days, the question is not what the horse can draw, but what the vehicle will hold, and the forms of several burly passengers standing up in the car effectively blocked the view through either end of the conveyance.

The show itself is as like as can be to its fifty-four predecessors—at any rate, to those of them that it has been my lot to see. Its site is a large common between the river Cam and the tall trees that fringe the ground of Jesus College. A broad avenue bisects the grounds, separating the live-stock from the implements, and the machinery in motion winds its noisy, evil-smelling trail along one-half of the frontiers of the show-ground.

The exhibits which interest pharmacists, and which chiefly consist of cattle foods and medicines, grinding-machinery, and disinfectants, are grouped much more closely together, and are placed generally in a far better position than has been the case hitherto. Some of the finest stands along Victoria Avenue, the main road of the exhibition, are those of prominent firms dealing in cattle-medicines. But as I propose, according to custom, to review the exhibits of pharmaceutical interest in alphabetical order, I must for the moment revert from these to the north-eastern corner of the show, where

The AGRICULTURAL CHEMICAL COMPANY, of Southampton, have a moderate-sized stand, on which they will display (for the exhibit was not yet ready at the time of my morning visit) their "Arcticanus" milk and butter preservative and "Primrose Colour" butter-colouring.

ARNOLD & SONS, 31 West Smithfield, London, have a good selection of veterinary instruments, such as clyster-pumps and syringes, sturdy instruments, trocars, &c.

The BOVINE FOODS COMPANY, of Pocock Street, Blackfriars, S.E., benefit by being in the cool neighbourhood of Messrs. Ellis's fountain, of which more anon. Their stand is not large, and the only specialities they show are various forms of foods—not, as the company's name would seem to indicate, for horned cattle only, but also for such non-bovine animals as horses and pigs. This company also sell a preparation (priced at a guinea per cwt.) for "renovating damaged hay."

R. CALVERT & SONS, of Seminary Street, Leeds, show fourteen or fifteen different cattle-medicines, none of which appear to be new in any sense. There are the familiar "black draughts", and "brown drenches," flanked by "white oils" and "condition-powders," with others of which the names, though clearly indicative of the function of the respective articles, are scarcely Johnsonian in their construction. "Hooseine" belongs to this group. "Equo," priced at a guinea per dozen pint bottles, is described as a pick-me-up for horses after a railway journey. The firm's representative at the stand informed me that they had recently brought out a 5*l.* medicine-chest (up to the present 3*l.* has been the highest price on their list), but were not showing it at the exhibition.

The CAMBRIDGE CHEMICAL COMPANY (LIMITED), 1 Sydney Street, Cambridge, make a good display of chloro-naptholeum, which is recommended as a cure for skin-diseases of farm-stock. Chloro-naptholeum, they state, is a non-poisonous preparation. It is used, diluted with water, as a wash, and appears to have a large sale in the United States, as well as on the home market. Pinol-peat and carbolised-peat disinfecting-powders are also among the manufactures of the house. The firm give away at their stand a little treatise on disinfectants, their properties and application, which will no doubt be welcome to many visitors.

JAMES HARRISON CARTER, 82 Mark Lane, E.C., has his usual large and interesting display of disintegrators, separators, and roller-mills. The largest disintegrator was just starting work when I made my call. The plaintive moan of the massive machine, as with insatiable appetite it ground away into a fine powder the dry bones which the feeder kept shovelling into it, could be heard from afar. Amid the noise of the engine, the attendant in charge of the exhibit pointed out to me the numerous advantages of Mellon's patent separator, which, by gravitation, mechanically removes all extraneous matter, such as stones, metal, or glass, from the material which is to be ground, while at the same time acting as a feeder to the mill. The material is thrown on an inclined plane, and subjected to a winnowing motion as it glides along. At one-third of the length of the plane is a barrier, over which only the light material can make its way, all heavy matter being kept back. Should any ponderous article by chance find its way over the first barrier, it is sure to be stopped by the second; while in order to make assurance doubly sure, a third barrier has been constructed at the bottom of the plane. Some of the heavy bolts and stones which were purposely thrown into the separator to show its value would have broken any disintegrator, no matter how powerful. Carter's disintegrators for druggists, which are also shown, have now a sixteen or seventeen years' reputation to look back upon, and their merits are thoroughly appreciated by those who use them. They are obtainable in almost any size.

Not far from Mr. Carter's large stand my attention was attracted by a show of much more modest dimensions, but furnished with some attempt at originality rare at this exhibition. It proved to be the exhibit of the CASTLE SOAP-MANUFACTURING COMPANY, Cambridge. The front of the stand was an imitation of a mediæval castle—as accurate a representation, I was told, as could be obtained of the historic Cambridge Castle, built by William the Conqueror and dismantled some three centuries ago. You may read about it in the exploits of Hereward the Wake, immortalised by Charles Kingsley. What association the castle has with toilet-soap is not quite clear, but the company have adopted a representation of the fortress for their trade-mark. For a good many years the firm have carried on business at Cambridge as manufacturers of laundry-soaps, but within the last few weeks they have laid down a new plant for "milled" toilet-soaps, of which they already turn out some very creditable specimens. The company's representative pointed with special pride to the fact that only "local labour" is employed at the works, and the firm may be congratulated upon their nice and effective exhibit.

CHAMBERLAIN & CO. (LIMITED), Bourne, Lincs, are

to the front with cattle foods and medicines of various kinds. Like another firm referred to below they make a specialty of "hay-spice" for "improving and restoring damaged hay and fodder," by rendering it palatable to the animal. They also offer powdered fenugreek-seed at 21*s.* per cwt.

FRANCIS CUPISS, M.R.C.V.S., Diss, Norfolk, makes his usual display of constitution-balls for horses, sheep, and cattle, and cough-balls for horses. At this stand, however, I failed to elicit any information, the firm apparently rather priding themselves upon having "nothing new" to show. Judging by the pamphlet they give away at their stall, however, that pride appears to rest upon a solid foundation, for the late Mr. Cupiss invented the remedies more than fifty years ago, and the selection of testimonials in the pamphlet spans from 1839 to 1894.

DAY & SONS, Crewe, have one of the finest and most prominent exhibits on the show-ground. Painted a subdued green colour, this stand is not offensively gaudy, and the picture of live-stock which adorns its gable is really an excellent piece of workmanship. Among the large selection of cattle-remedies shown by the firm, the only new thing is the "Komos" condition-powder for horses, which is put up in attractive boxes to retail at 6*s.*, 11*s*, or 20*s.* each. Messrs. Day's representative showed me one of the medium-sized

boxes, which contains a sufficiency of material for 200 or 300 powders. A small measure is enclosed in each box, and the animal is given a measureful with each meal during four or six weeks, when it will be, to use my informant's words, "fit for exhibition anywhere." "Zozzinol," the calf and lamb remedy which was brought out last year, continues to enjoy a good sale, and on the whole, I was told business was very brisk, "considering the time of the year." Naturally I inquired for "Oil of the Night," the preparation by which Messrs. Day & Sons are probably most widely known to pharmacists; but this remedy, I was told, was not exhibited on the present occasion.

DAY, SON & HEWITT, 22 Dorset Street, Baker Street, London, whose stand equals that of the firm last named in

size and attractiveness, are not offering any new preparations this year. They were just laying the finishing touches on their stand at the time of my call, and arranging the numerous preparations with which they appeal to stockowners. Medicine-chests are one of the specialities of the firm. These useful articles are obtainable in five or six different sizes, ranging in price from 30*s.* to 6*l.* 6*s.*, and may be had either to supply the requirements of an owner of mixed stock or for one particular kind of animal. Mr. T. G. Hewitt, one of the firm's partners, who is a veterinary chemist, may be consulted gratuitously in difficult cases by customers of the firm. No better proof could be given of the popularity of the firm than the fact that the "Key to Farriery" pamphlet issued by them is now in its eleventh edition.

R. ELLIS & SON, Ruthin, North Wales, are comparatively new exhibitors at the show. They made their first appearance at Chester last year, because that city is within easy distance of their works, and they seem to have been so well satisfied with the trial that they have now enrolled themselves among the regular clients of the society. This is a decided advantage for the society, for Messrs. Ellis & Son are among the few exhibitors who possess sufficient originality to break away from the beaten track of symmetrical little pyramids of goods on a red-cloth covered board. Their stand has been made to look as like a combination of a castle and grotto as an artificer's skill, backed by a plentiful supply of ferns, virgin cork, and stage property in the way of barred windows and moss-grown walls can make it. But, mindful that stone walls do not a prison make, nor iron bars a cage, I, like the innocent-minded philosopher in the cavalier-ballad, took Messrs. Ellis's stand for a hermitage, and sat me down awhile by the crystal fountain that forms the centrepiece

of the exhibit, to arrange my notes and chat with the manager. The manager was very proud of the Welsh mottoes with which he has adorned the front of the stand. The Royal Arms blazon forth from the top, and below is a shield bearing a goat at gaze, with the words "Cymry am Byth" —"Wales for ever." Up to this point I had no difficulty in following the manager's excursions into his native tongue, and even "Duwa digon" offered no insurmountable obstacle; but when my informant enthusiastically began, "Byddwch Gyfiawn ac-nag ofnwch!" I turned the conversation into a less painful channel. The Welsh mountain spring which supplies the water for the "Ruthin" beverages, I learned, is the private property of the firm. It is situated under their own premises, and has supplied table-waters ever since 1825, when the house was established. In this connection I had pointed out to me the alleged first mention of soda-water in English literature, said to occur in one of Byron's poems, where the author, in one of those personal interludes of which he is so fond, calls for "hock and soda-water." Byron, with reprehensible ingratitude, omitted to incorporate into his poem the name of Ellis, of Ruthin, the first manufacturer of the beverage. Poor, fat, stupid Jos. Sedley, when he lost his heart to Becky Sharp, at Vauxhall, a few years earlier, and woke up next morning with a terrible headache, was compelled to have recourse to small beer to drive away the effects of the previous night's carouse. These literary reminiscences, however, do not make it quite clear in what year soda water first appeared upon the scene as a boon and a blessing to man. The period of

Jos. Sedley's amours was about 1814, which, we may take it, was in the pre-soda-water era, although "Vanity Fair" was not written until 1846, and Thackeray only knew the days referred to in the early part of his romance by hearsay. I am able, however, out of my limited fund of literary lore to present Messrs. Ellis with a quotation which narrows the uncertainty of the date. In the XVI. Canto of "Don Juan," written in 1819, there occur the lines:—

> The evaporation of a joyous day,
> Is like . . . .
> Or like a soda-bottle, when its spray
> Has sparkled and let half its spirit out.

So much for soda-water and the poets. Among Messrs. Ellis's wares I observed ginger-ale in champagne-bottles, a mode of packing recently adopted by the firm. This beverage, which is packed in wicker baskets of 3 dozen, is taking the market by storm.

After resting awhile in Messrs. Ellis's cool bower, I paid a visit to the stand of

Fletcher Brothers & Co., Grimsby, who exhibit about a dozen preparations of the nature of sheep-dip in paste and powder, weed-killer, phino-phenol disinfecting fluid and powder. Messrs. Fletcher Brothers can look back upon a long experience in the manufacture of sheep-dip, and their non-poisonous concentrated fluid-dip has been authorised by the Cape Colony Government as a remedy for the cure of scab. It is readily soluble in cold water, even of the hardest description, and does not stain the sheep's wool. The firm also bring out an arsenical paste-dip, in paper packets, to retail at a shilling. The "improved dipper"—a new sheep-dipping apparatus, which will dip from 1,000 to 1,500 sheep a day—is also exhibited, and the firm were confident that it would come well out of the ordeal of the competition of sheep-dipping apparatus which would be held in a few days. This surmise has proved correct, for, since my visit, the "dipper" has carried off the one and only prize offered in this department. I now passed on to the large exhibit of

William Gardner & Sons, Gloucester, where several machines of pharmaceutical interest are shown. Gardner's "Indispensable" sifter and mixer, a small handy instrument selling at 48*s*., and having a capacity of 7 lbs., is specially adapted for the preparation of colours, spices, cattle-foods, and any other kinds of powders, either dry or lumpy. The large "Rapid" mixer, which is priced at 27*l*., performs the same work on 200-lb. quantities at the time.

Jeyes' Sanitary Compounds Company (Limited), although not showing any new preparations, have an excellent and roomy stand, arranged in much the same way as at previous exhibitions. The centre is occupied by a large sheep-dipping apparatus. This machine, which is mounted on wheels and fitted with shafts, can be packed for transport in a very small compass, as all the fittings can be stowed

away in the trough, and a horse will pull the whole affair along with the utmost ease. Trophies of Jeyes' fluid and powder, samples of soap and sheep-dip, with foot-rot ointment and other veterinary ointments, made up the show. At the time of my visit the attendants were still busy nailing up the familiar advertisements of the pretty hospital nurse washing in water disinfected by Jeyes' fluid, and the festooning of the stand was as yet uncompleted, but, as it then looked, Jeyes' promised to become one of the show-stands of the exhibition.

The Hardy Patent Pick Company (Limited), Sheffield, again exhibit their now well-known "Devil" disintegrator. Three specimens of the machine, in various sizes, are shown, in addition to which the "Multiple" grinder and "Magnetic" separator may be seen at work at the firm's stand. The last-named separates, by magnetic attraction, any pieces of metal that may be mixed with grinding-material. The apparatus is a very simple one, consisting of a large cylinder fitted with several magnets. The cylinder revolves as the grinding-material is shot into it, and any piece of metal which may happen to be among the bones is at once seized by the magnet, carried upwards, and dropped upon a tray at the top end of the cylinder, the magnets being momentarily mechanically disconnected from the dynamo whenever they pass the tray.

Morris Little & Son, Doncaster, the well-known sheep-dip manufacturers, own a large and well-arranged stand, at which their non-poisonous fluid sheep-dip, poisonous powder-dip in 1*s*. packets, dog-soap, and "Phenyle" disinfectant were temptingly displayed. "No; same old game," was the attendant's answer to my inquiry whether the firm were showing anything new, and the answer brought my inspection of the goods to an earlier close than might have been the case otherwise.

T. Mott, Littleport, Ely, only shows a single article—viz. his own horse-powder lotion for the treatment of grease and other skin-diseases in horses.

Newton, Chambers & Co. (Limited), Sheffield, have lately commenced to manufacture bar and toilet soaps, and are making a good display of those articles. "Izal" is, of course, the chief attraction of this firm's excellent stand. The disinfectant is represented by several large red tins and drums, containing the now popular preparation as a 15 and 10 per cent. powder, or in a liquid state. "Noxona," another prominent article on this firm's stand, is a non-poisonous sheep-dip.

Odams' Manure and Chemical Company (Limited), 116 Fenchurch Street, E.C., have an excellent display of the raw materials used in the preparation of their manures, and the gentleman in charge of this handsome stand was good enough to enlighten me, in a few running comments, upon the subject of phosphates. Some two dozen or more samples of phosphates, ranging in colour from pale grey to brown, and thence to black, were exhibited. The West Indies, it appears, furnish the largest supply, the richest variety of all being that of Curaçao, which contains, as a rule, from 86 to

88 per cent. of phosphoric acid. Algeria has of late years become a supplier of phosphates, and now yields very large quantities, but the quality is only middling. Russian phosphates occur naturally in heavy black balls, like old cannon-balls. They are very curious to look at, but their average strength is low—only about 70 per cent. A fair amount of phosphates is also recovered in this country, notably in Bedfordshire, Cambridgeshire, and Suffolk, but their quality is poor, and the deposits are gradually ceasing to be worked. Messrs. Odams' exhibit is flanked with large fossil-bones for grinding, and specimens of pyrites for the manufacture of

sulphuric acid are also shown. The firm have lately commenced to manufacture sheep-dips, both fluid (non-poisonous) and in powder (poisonous), and sundry kinds of disinfectants. I asked their representative how he found trade at present, and heard that the firm had little to complain of. They have a very considerable export business, and, although the home trade will be quiet until the autumn, France and Russia are now buying large quantities of chemical manures.

The OLD CALABAR COMPANY (LIMITED), 28 Chapel Street, Liverpool, have a small display of poultry-meal, dog-biscuits, and feeding-stuffs.

STEPHEN PETTIFER & SON, Malmesbury, besides medicine-chests, sheep-dipping composition, cattle-drenches, and suchlike veterinary remedies, make a prominent feature of their "Herbal Tonic, or Flockmasters' Friend," which they recommend as a remedy for parasitic diseases, diarrhœa, and worms in sheep and lambs. Separated from this firm by a few stalls is the rival house of similar name,

THOS. PETTIFER & CO., Eydon, Banbury, showing similar remedies, "Pettifer's Herbal Tonic Mixture" being the great gun on this stand. It is recommended for similar ailments in sheep and lambs as that of the other Pettifer.

Leaving the two Pettifers and their rivalries, I proceeded to inspect the exhibit of

QUIBELL BROTHERS, Newark-on-Trent. At this stand a number of sheep-dip preparations are shown, the liquid ones, as usual, being non-poisonous, while the powder dips are poisonous, and can only be sold by pharmacists. Calf-meal, special lamb-food (recommended as a "perfect diet"), and an improved hand dipping-apparatus on rollers make up this exhibit.

SPRATT'S PATENT (LIMITED), Bermondsey, London, S.E., occupy one of the large stands in the central avenue, and make an excellent display. The number of preparations placed upon the market by this company is constantly increasing, the latest remedy brought out by them being "Blackerite," a cure for gapes in birds, which is very neatly

put up in 6*d.* and 1*s.* tins. A number of fine pictures of dogs fed on Spratt's patent food adorn the show, demonstrating the fact that, although poultry, horses, and cattle now share the firm's attention with the canine race, solicitude for the wants of "doggie" still remains the guiding spirit of the great establishment in Bermondsey.

The STRETTON HILLS MINERAL-WATER COMPANY, Church Stretton, Shropshire, occupy a rather nice stand, close to Messrs. Ellis & Sons. The usual mineral waters are displayed, along with quinine-water, "lime-fruit-juice champagne," and other preparations of that kind.

B. C. TIPPER & SON, Balsall Heath, Birmingham, have a selection of medicine-chests and cattle-remedies. Mr. Tipper, at his stand, gives away a miniature price-list and guide, judging by which he is a hardly-used man, for he declares himself compelled to omit from it the list of testimonials received from his customers, because "fraudulent imitators of our goods have the audacity to copy such testimonials, word for word, only protecting themselves from prosecution by substituting some bogus name and address." Fortunately, a little cherub keeps watch over the ill-used Mr. Tipper and confounds his enemies, for do we not also learn from the guide that "diseases have been less a loss to owners of stock generally, and among none has the freedom from disease been greater than among those who have been regular users of our preparations; and this is the more striking when, as it has happened in many cases, their neighbours' losses from disease and mortality have been considerable"? Learn, therefore, O imitators! that a poetic justice has endowed Tipper's preparations with the power not only of prospering the flocks that feed upon them, but of positively killing off the herds of the neighbouring Ishmaelites who do not fly to the Tipper cures.

TOMLINSON & HAYWARD, Lincoln, have a fine stand in an excellent corner-position. The first thing that struck me when approaching their display was the fact that the firm's new weed-killer now bears, in bright red lettering, a plain warning of its poisonous character. The weed-killer is now put up exclusively in strong drums, all the tins having been discarded as not sufficiently strong. Hayward's poisonous sheep-dip—a highly concentrated deep-yellow paste, which is retailed in 1*s.* tins—is also a prominent feature of the stand. "Now that they are so strict about limiting the sale of poisonous sheep-dips to chemists only," said the

firm's representative, "a number of non-poisonous preparations have sprung up which are being pushed by the grocer and oilman. They are, of course, less effective than the poisonous dip, but the makers are trying hard to conquer a place on the market, and it is, therefore, to the interest of the chemist to use to the utmost the monopoly which his privileged position gives him by pushing wherever he can the poisonous and higher-class preparation. Moreover, we do not allow the price of our goods to be cut, and in cases where we have found chemists selling below the regular retail price we have refused to supply them further. That should be a point in our favour." Among the other preparations at this stand are lambing-oils, Tomlinson's preservative, butter-colour, essence of rennet, &c.

Our photographs are by Mr. Stearn, of Cambridge.

THE CHEMIST'S ASSISTANT IN THERAPEUTICS.—The drug-clerk of the present day is a compound tincture, of variable quality and ordinary strength. He is not recognised as a standard pharmaceutical preparation until he becomes a registered pharmacist. His therapeutic value is determined, first, by his employer; second, by the trade or general public whom he serves. Since he is a compound tincture, he is composed of various attributes, such as honesty, integrity, intelligence, energy, ambition, and ability. He is held in solution—*i.e.* to his work by his salary; and is warranted not to degenerate in any climate. Dose, by the month, from $40 to $75; dose, by the year, from $900 to $1,200. If the faculties of his mind are chemically well balanced, he will not be easily precipitated by the acid of a difficult and exacting trade. In character he is tonic, non-irritant; without acid reaction; unrestricted in utility, and of uniform and sustained action. So writes Mrs. Belle C. Heilman, Tecumseh, Nebraska, in a paper to her State Association As she is a druggist herself she knows all about it.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *June* 28.

New York Cable Message.

Our New York correspondent, wiring on Wednesday night, informs us that *refined camphor* has been reduced to 36c. per lb., bottom price; *golden-seal root* is very firmly held at 20c. per lb.; *Mexican sarsaparilla* is also very firm at 9½c. per lb.

The American Markets.

New York, June 20.

Midsummer dulness has set in this year earlier than usual, and trade is reduced to retail proportions. From the south a better demand is reported for drugs, but western merchants keep to the hand-to-mouth policy. The settlement of the coal strike is an encouraging event, and a revival of activity in mining locations is already observable. *Acetate of Lime* makers are oversold for the present, and there is very little to be had for immediate delivery; prices have been advanced 5c. to 10c. a hundred pounds, to 95c. for brown, and $1.65 for grey. *Acid Acetic*: The manufacturers' agreement is no longer in force, and as a result of an open and demoralised market prices have declined to 1½c. to 1¾c. *Acid (Carbolic)* does not meet with the demand usual at this season. Bulk is slightly easier at 12½c. in large drums, and 18c. in 1-lb. bottles for 35°. *Acid (Oxalic)*: Some weak holdings having been disposed of the market is somewhat steadier, and it would now be difficult to shade 6⅛c. *Aloes Curaçoa*: Sixty boxes were sold yesterday at 2¾c. This comprises all the stock available at that figure: for further parcels 2⅞c. is required. *Buckthorn Bark* is lower at 4½c. to 5c. for new crop. *Camphor*: The American manufacturers have reduced the price 3c. lb. to 36c. to 37c. in barrels, and 37c. to 38c. in cases, the inside figure applying to 10-package lots. *Castoreum* is in better supply, and prices have been reduced to $16.00, and in the north-west it is offered at $15.50. *Damiana Leaves* are in full supply, and prices slightly easier at 10½c. to 11½c. *Golden seal root* offers more freely, and down to 19½c. has been named in instances. *Guarana* weakens under the pressure of heavy arrivals, and is now quoted in quantities at 80c. to 82½c. Eleven cases 1,964 lbs. arrived per *Paracense* from Para. *Honey (Californian)*: Our prices are still below a parity of primary markets, where values have advanced to 6¼c., or equivalent to 6¾c. laid down in New York. A few small lots can still be picked up here at 6½c., though large holders are firmer in their views. *Jalap* continues to arrive in liberal quantities, and stocks here are very large: considerable business could be done at 16c., but there is no disposition shown to release holdings at that figure. The market is strengthened by reports that the Mexican government will levy a duty on this and other roots after July 1. *Morphia*: The principal makers have announced a reduction of 10c. per oz. to the bulk basis of $1.90. English is also lower at $1.80 in bulk. *Oil of Bergamot*: Sanderson's has been reduced to $2. *Oil of Peppermint*: There is no demand for export, and not a feature of interest has developed. H.G.H. can be bought at $2.80; but as that figure is reported ruling in London, we can hope for little demand from that quarter until there is some material difference between our markets. *Fish oils* are lower, Bank and Straits are quoted at 25c. and 26c. respectively; W.B. sperm oil 66c. A considerable quantity of Menhaden oil, about 12,000 barrels, was sold for shipment to Glasgow; the particulars are withheld for the present, but it is generally believed that the sale was effected at a liberal concession on ruling quotations. *Opium*: The advance to 1*s.* 6*d.* reported from London late last week was indeed a surprise to the trade here, who were disposed to take a pessimistic view of the situation in view of the very favourable crop conditions previously reported. The unfavourable advices coming as they did without any previous warning were not accepted with full confidence generally. The subsequent advance to 9*s.* 4*d.*, cabled from Smyrna, has served to awaken holders to a realisation of the conditions confronting them, and prices have advanced to $2.15; although the advance is welcomed there is no speculative enthusiasm shown. *Orris-root (Verona)*: All the cheap lots have been bought up, and the market is now firmly established on the basis of 13c. *Sarsaparilla (Mexican)*: There is a good demand from Europe; but business is restricted by the low views of buyers. Recent arrivals are held at 8½c. The *Saratoga* brought 43 bales, and the *Cuidad Condal* had 14 bales. *Silver nitrate* declined to 41c. to 42c., influenced by lower prices for the metal. *Senega*: The first gun of the season has been fired in the direction of low prices by a prominent north-western dealer, who is offering to sell in lots of not over 10,000 lbs. at 33c. freight-paid to seaboard. The low price has probably been named for the purpose of keeping eastern buyers out of the market as competitors for the new crop. It now remains to be seen how low the market will be put. Crop conditions are not likely to prove the all-important factor in the fluctuation of this article. *Simaruba bark*: No new arrivals have reached this market, and it is still very scarce, with only a limited quantity obtainable at 30c. *Sugar of lead (white)* declined to 9¾c. as the result of more active competition.

The Liverpool Market.

Our Liverpool correspondent, writing on June 26, says that *Chilian aniseed* is steady at 20*s.* to 26*s.* per cwt., according to quality, sales having been made at the latter price. *African Ginger* is quiet at 34*s.* to 35*s.* per cwt. *Fenugreek (Egyptian)* has been sold in quantity at 6*l.* 12*s.* 6*d.* *Honey* is steady at late rates. The advance in *Canary-seed* has been maintained, and over 800 bags have changed hands at 44*s.* to 45*s.* per qr. Holders talk of yet higher prices. *Castor oil* continues to move in sellers' favour, and 2$\frac{3}{16}$*d.* to 2¼*d.* is now asked for good seconds Calcutta. First and second pressure French are more firmly held, but values have not been changed. *Gums*: The recent inquiries for Arabic descriptions have applied chiefly to very fine sorts, of which there is rather a scarcity, and good medium qualities available at 40*s.* to 45*s.* attract but little attention. *Chilies (Sierra Leone)* are steady at 32*s.* 6*d.* to 35*s.* per cwt. *Grains of Paradise*, owing to arrivals, are easier, and a quantity has been sold at 18*s.* per cwt. *Beeswax*: Gambia description has sold ex quay at 7*l.* The other varieties are firm at late values.

The Otto-of-rose Crop.

Our Bulgarian correspondent writes under date of June 7/19:—"The distilling will practically be at an end within three or four days from now. The weather has been most unfavourable during the distilling period, and much damage has been done to the flowers in certain districts by insect-plague. Nevertheless the general impression is that this year's crop will yield quite 10 per cent. more otto than that of 1893. The proposed scheme for placing the otto-of-rose industry under State control has not been dropped. On the contrary, the Bill will be taken up by the Government, instead of being left in the hands of a private deputy, when the Sobranje reassembles next autumn. The Government propose to lay before the Assembly their Bill, which will provide exceedingly heavy penalties for adulteration. The best distillers are strongly supporting the action of the Government."

ACID (TARTARIC).—Slightly firmer, with a fairly good demand. *English* brands are now quoted at 11*d.*, *foreign* at 10⅜*d.* to 10½*d.* per lb.

ARGOL.—After the recent drop in price the market has remained steady. At auction 35 bags grey dusty *Cape* argols sold without reserve at 35*s.* to 36*s.* per cwt.

ARSENIC remains very firmly held, but without further alteration in price; 14*l.* 15*s.* per ton is the quotation for best white powder.

CAMPHOR (CRUDE).—A considerable business has lately been done in *China* camphor up to 75*s.* c.i.f. terms, and the present quotation is 78*s.* to 79*s.* per cwt., c.i.f. terms, for June-July shipment, but it would probably be possible to buy to-day at 77*s.* 6*d.* per cwt., c.i.f. terms. *Japan* sold at up to 85*s.* c.i.f., but 90*s.* c.i.f. is asked now.

CAMPHOR (REFINED).—Firm, but unchanged, at 1*s.* 4½*d.* per lb. for *English* bells in 10 cwt. lots.

CINCHONA.—A moderate quantity of cinchona-bark was offered for sale at Tuesday's auctions. There were six catalogues altogether, divided as follows:—

	Packages		Packages	
Ceylon cinchona	206	of which	189	were sold
East Indian cinchona	392	„	368	„
Javan cinchona..	318	„	318	„
West African cinchona ..	414	„	414	„
Cuprea bark	211	„	—	„
	1,541		1,289	

The assortment was not remarkable in any way, save, perhaps, for the fact that the Ceylon bark, in point of number of packages offered, again stood at the bottom of the list. The supplies of East Indian bark will probably keep up for some months longer, and occasional consignments of West African cinchona may help to make up a decent show at the fortnightly auctions; but practically the London market, so far as cinchona-bark is concerned, now derives whatever importance it still possesses from the old stocks stored here, which are still fairly considerable, although shrinking rapidly.

The bark offered to-day was fairly well competed for, principally by two German factories who, between them, secured nearly two-thirds, by weight, of the bark sold. The tone was firm throughout the sales, and the unit may be put at fully ⅞*d.* per lb., or quite equal to that of the previous auctions.

The following were the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for the Auerbach factory	78,492
Agents for the Brunswick factory	71,975
Messrs. Howards & Sons	31,170
Agents for the Frankfort-on-the-Main factory and Stuttgart-works	16,164
Agents for the Paris factory	14,348
Agents for the American and Italian-works	13,420
Agents for the Mannheim and Amsterdam-works ..	1,225
Druggists	27,046
Total quantity of bark sold	253,840
Bought in or withdrawn	40,740
Total quantity of bark offered	294,580

It should be remembered that the proportion of bark secured by a buyer is no indication of the percentage of the total amount of quinine in the sales represented by his purchase. The prices paid for sound bark were as follows:—

CEYLON CINCHONA.—*Original*—Red varieties: Poor woody to fair bright quilly stem and branch chips, 1*d.* to 1⅝*d.*; rather dusty root, 2*d.* to 2¼*d.* per lb. Grey varieties: Low dull thin to fair bright strong stem and branch chips, 1*d.* to 2⅝*d.* per lb. *Renewed*—Red varieties: Small thin to good bright stem and branch chips, 1¾*d.* to 2*d.*; fine stem shavings, 3⅛*d.* per lb. Grey varieties: Ordinary to fair bright stem chips, 2*d.* to 2¾*d.*; good shavings, 2⅝*d.* per lb.

EAST INDIAN CINCHONA.—*Original*—Red varieties: Fair branch chips, 1¾*d.*; ditto shavings, 1⅛*d.* per lb. Grey varieties: Fair quilly to good bright stem and branch chips, 2⅞*d.* to 3⅜*d.* per lb. Yellow varieties: Fair to good bright quilly branch and stem chips, 2⅝*d.* to 3*d.*; stem shavings, 4*d.*; branch shavings, 2¾*d.* per lb. *Renewed*—Red shavings, 2*d.*; grey chips, 4¼*d.* to 4½*d.* per lb.

JAVAN CINCHONA.—A parcel of 318 packages (all declared to be of direct import) sold readily at the following rates:—Original yellow branch and stem chips, 1¾*d.* to 3*d.*; renewed ditto, 4*d.* to 5½*d.*; root, 3*d.* to 3½*d.*; fine quilly chips, 7*d.* to 7⅛*d.*; good ditto, 5¾*d.* to 6⅛*d.* per lb.

WEST AFRICAN CINCHONA.—Several consignments of recent import, *viâ* Lisbon, aggregating 414 packages, found ready buyers. Fair medium to bold, somewhat irregular, quill of succirubra character at 2⅜*d.* to 2⅞*d.*; chips, more or less quilly, 1½*d.* to 2*d.* per lb.

CUPREA BARK.—The usual small assortment of Cuprea bark of 1882–4 import was brought out again to-day, but not a single acceptable bid could be obtained, and the whole was bought in, fair quality at 2*d.* per lb.

CORIANDER remains scarce and dear. A parcel of 15 bags sold at 29*s.* per cwt. at auction this week.

CREAM OF TARTAR.—The market is fairly strong, 64*s.* 6*d.* to 65*s.* per cwt. being the price for best white *French* crystals, and 67*s.* per cwt. for powder.

GINGER.—Very quiet. At auction about 100 barrels *Jamaica* root sold at a decline of 2*s.* per cwt.; common, 55*s.*; low medium and small scraped, 57*s.* to 61*s.*; medium bright washed, 61*s.* 6*d.* to 66*s.*; good medium to good bright, 69*s.* to 77*s.* per cwt. Seventy bags mouldy *Japan* ginger realised 37*s.*; and 8 cases small and lean split China 34*s.* per cwt. *Cochin* root is from 1*s.* to 2*s.* lower, 340 bags selling at 39*s.* for washed rough cuttings; 43*s.* 6*d.* to 46*s.* for small to medium, fair to good; 52*s.* for fine brown rough; and 70*s.* for bold B-cut; and 74*s.* to 77*s.* per cwt. for bold half-cut A.

GUM TRAGACANTH.—Quite neglected. Fine druggists' kinds are firmly held, but for common gums lower prices would probably be accepted if business could be brought about by this means. First *Bagdad* (*Persian*) is quoted at 12*l.* 10*s.*, seconds at from 10*l.* 15*s.* to 11*l.* 10*s.* per cwt. *Smyrna* (*Anatolian*) firsts are held for 13*l.* to 14*l.*, thirds and seconds for 9*l.* to 11*l.* 5*s.* per cwt.

MENTHOL.—On the spot 18*s.* per lb. is nominally asked, but a firm of importers offer at 16*s.* per lb., c.i.f. London net, a parcel of 300lbs. due here about the middle of July. From another quarter we receive a quotation of 14*s.* 6*d.* per lb. c.i.f. for July-August shipment.

OILS (ESSENTIAL).—There is very little business to report in this department. *Oil of cassia* remains dull, and may be bought at 3*s.* 4*d.* per lb. on the spot. *Citronella oil* quiet, at 10½*d.* to 11*d.* per lb., in drums, on the spot for native brands. *Lemongrass oil* steady, at 1⅞*d.* per oz. on the spot for native brands. *Star-anise oil* is dearer; sales, spot, up to 6*s.* 6*d.*; offers to arrive, distant shipment, at 6*s.* to 6*s.* 1*d.* per lb. c.i.f. American *Oil of peppermint* remains firm, but the demand is moderate.

OPIUM.—The continued reports of rising markets in Smyrna and Constantinople have not affected the position in London very much. The quotations here remain practically unchanged—viz., 11*s.* to 11*s.* 9*d.* for good to fine *soft shipping*, 9*s.* 6*d.* to 10*s.* 6*d.* for *Smyrna*, 8*s.* 6*d.* to 9*s.* per lb. for *druggists "seconds,"* 8*s.* 6*d.* to 10*s.* 6*d.* per lb. for *Constantinople*, 9*s.* to 11*s.* per lb. for *Persian*. Our news from Smyrna, under date of June 23, is to the following effect:—New opium has never been sold so early in the season as this year, operations in the drug, as a rule, not beginning before July. It is said that the sudden upward movement had its foundation, not in the actual damage done to the crops, but in a deal by a Smyrna agent, who early in May purchased 23 cases from a native at the equivalent of 8*s.* 8*d.* per lb., which was below the market-price, on the understanding that if, after fifty days the market-price should have advanced, the bargain would be regulated on the basis of 9*s.* 5*d.* per lb.; if, on the other hand, the market-price should be stationary or lower, the seller would receive 8*s.* 8*d.* per lb., and no more. When this became known, a ring of dealers was formed for the purpose of forcing up the prices, and this scheme, as our recent telegrams have shown, was partly successful. On the date of the letter the market closed firmly. The crop is being harvested in all the producing districts, favoured by excellent weather. The arrivals of new opium to date were 63 cases "We have to inform you," writes our regular correspondent,

"that hot and dry southerly winds, which lasted for a period of six to seven days in Karahissar and the country round about there, have done harm to the opium plants, especially to those planted in the spring, which are dying out owing to the lack of moisture. If no rain falls soon the injury to the Karahissar district opium plants (which is considered one of the best and largest producing districts in Turkey) will be very serious. It is already reported, but by interested parties, that the outturn of the Turkey crop this year will not exceed 3,500 cases. The purchases this week have all been taken by our bazaar dealers for account of their interior clients, who also bought this week from shippers by contract, to be delivered in fifty-one to sixty-one days, about 3,000 lbs., at 9*s.* per lb. f.o.b. Our shippers (exporters of opium) sold to keep the market for some time in the neighbourhood of 9*s.*"

Prussiate of Potash.—The Syndicate price "for" *yellow* remains 10½*d.* to 10¾*d.* per lb. according to quantity, but we are informed that there are outside offers in the market at a fraction below those figures.

Quicksilver remains quiet; importers still ask 6*l.* per ottle, second-hand holders about 1*s.* less.

Quinine.—Very dull. There are sellers of second-hand German at 10⅝*d.* per oz., but no business is reported. The manufacturers' quotations remain as follows:—*Howard's*, in 1-oz. vials, 1*s.* 3*d.* to 1*s.* 4*d.*; in tins, 1*s.* 2*d.* to 1*s.* 3*d.* per oz.; *Whiffen's*, in vials, 1*s.* 3*d.*; in tins, 1*s.* 1*d.* per oz.; *Pelletier's*, in vials, 1*s.* 5*d.* to 1*s.* 5½*d.* per oz.; *Fabbrica Lombarda*, in vials, 1*s.* 3*d.*; in tins, 1*s.* 1*d.* per oz.; all the *German* brands, in tins, 1*s.* 1*d.* per oz.

Rose-leaves.—The crop of roses in *France* has been a very good one, and the new leaves are now on the market at 1*s.* to 1*s.* 3*d.* per lb. *Dutch* and *German* leaves will come a little later.

Scammony.—The following are the current quotations:—*Firsts*, 20*s.* to 24*s.*; *seconds*, 15*s.* to 18*s.*; *thirds*, 10*s.* to 13*s.*; *Skillipe*, from 6*s.* to 10*s.* per lb. Market sluggish; all varieties neglected.

Scammony-root.—The stock has been much reduced lately, and is now firmly held at from 25*s.* to 27*s.* 6*d.* per cwt.

Senega.—New crop senega-root, deliverable in about six weeks' time, is offering at 1*s.* 6*d.* per lb.

Soy.—*Chinese* has sold at 1*s.* per gallon, c.i.f. terms.

Spermaceti.—Refined American spermaceti is quoted at an advance of about a penny per lb., 1*s.* 4½*d.* per lb. being the current quotation.

Sugar of Milk.—We understand that a parcel of American sugar of milk is now on the way to London, and will shortly be offered for sale in competition with the Continental article. It appears that the Americans intend to make England the dumping-ground of their surplus production of sugar of milk. The importing agent assures us that his countrymen are prepared to "lick anything yet seen in England in the drug."

Tamarinds.—A parcel of 50 barrels *Barbadoes* tamarinds sold recently at 12*s.* 6*d.* per cwt.

Tonca-beans.—The market remains very quiet indeed, common foxy to fair Pará beans are quoted at 8½*d.* to 1*s.* 4*d.*, medium to good black at 1*s.* 6*d.* to 2*s.* per lb. Fine bold frosted *Angostura* beans are nominally held for 8*s.* 6*d.* per lb.

Wax (Japan).—Sales have been made at 27*s.*, c.i.f., to arrive.

THE NITRATE OF SILVER TROUBLES.

We briefly referred, in our last issue, to the two nitrate of silver circulars that have recently been issued by two firms who are now competing in the article. It may as well be stated now that the two houses concerned were Messrs. Johnson & Sons and Fuerst Brothers. Anxious to ascertain the cause of the bother, our representative interviewed the gentlemen most concerned in it on 'Change this week, and what follows is a synopsis of the conversations:—

"We have nothing whatever to conceal in the matter," said Mr. Watson—Johnson & Son's popular manager—blinking urbanely through his black-rimmed glasses and stroking his moustache gently, "only you ought not to describe the little slip we have issued to our friends as a 'circular.' Briefly, the facts are these: Johnson & Sons have always been makers, *makers*, mind you, and *always*, of nitrate of silver. Some thirty years ago, when photography first became popular, and the demand for nitrate of silver suddenly increased largely, Browne & Wingrove, who were then the melters to the Mint, came to us and asked if we—who were known to them as manufacturers of nitrate of silver, and who had the distributing facilities—were willing to take their make off their hands and bring it to market. A bargain was then struck between us, under which we agreed to take the whole of their output, they not to sell to anyone else, and the stuff to be marketed along with our own. That was a perfectly businesslike and honourable arrangement. We had a small plant working, and had we not accepted the proposition, we should have been compelled to enlarge it to supply the demand and to face the opposition of Browne & Wingrove's stuff. As it was, we tested every batch that was sent to us, and practically made the nitrate of silver, or, at any rate, closely supervised its manufacture. No contract was ever made between us in black and white, but the arrangement worked satisfactorily for both parties, and we never had any bother. A few years ago Browne & Wingrove ceased to exist, and there was a temporary cessation in the supply of nitrate of silver. This rather put us out, and so we immediately enlarged our old plant—fourfolded it, in fact—and were just about to overcome the difficulty, when Messrs. N. M. Rothschild & Sons purchased the Wood Street works. Now, the old firm of Browne & Wingrove never did appear—never wanted to appear—as makers of nitrate of silver. Had anyone come to the house in Wood Street, Cheapside, No. 30, just through the old gateway, and asked to be supplied with it, old Wingrove would have stared at him and said: 'What! nitrate of silver; we do not know the article; bless your soul, we've never heard of it!' And he would have had to come to us. Now, when Rothschilds commenced the manufacture, we continued to deal with them, as we have done with Browne & Wingrove, without an actual contract, but upon the same understanding. Difficulties and complaints arose occasionally, and things did not work quite so smoothly as in the past. A few weeks ago, I suddenly heard that Fuerst Brothers were offering English nitrate of silver. I got a friend to buy some, and, of course, recognised the make. Then I went to Wood Street and asked if they had lately been supplying nitrate of silver to anyone besides ourselves. They said they had. We then informed Messrs. Rothschild that under the circumstances we could not continue the understanding; that we were willing to discuss new terms, but that we must insist, first of all, upon their ceasing to supply other firms. They refused, and so we put our big plant in full working order and started making all our nitrate of silver ourselves. That is how the matter stands. But we have always been makers."

"And the price?"

"Oh, the price has gone to the devil! I mean it has dropped about ½*d.* or ¾*d.* per oz. for small customers, but whatever our competitors sell at we shall follow suit. Good-bye!"

Messrs. Fuerst Brothers did not say quite so much as Mr. Watson; but they, nevertheless, answered our representative's inquiries with great courtesy. They entirely confirmed their circular. "The proprietors of the Wood Street works," said Mr. Fuerst, "fell out with Johnson, or, rather, Johnson fell out with them. The owners of the works then asked us if we could do the trade, and when we showed them that we could, they appointed us as their sole agents. That is all. It is not correct that any nitrate of silver has been sold over Messrs. Johnson & Son's heads. As to price-cutting, we shall not encourage it. It is not our custom to work at a loss, and, besides, there is no need for cutting prices. And we don't want to quarrel with anybody in the least. Let Messrs. Johnson try to do their business, and we shall do ours. I repeat we do not wish to have any unpleasantness whatever."

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

The Sale of English Patent Medicines on the Continent.

SIR,—We foreign chemists in Italy find ourselves in a very puzzling position, because the Italian Government will not any longer allow the introduction of foreign patents without the formula of the contents at least on the outside wrapper. This is very annoying, without any practical result to Italian chemists, as no English or American traveller will accept a substitute for Beecham's pills, Eno's fruit salts, Carter's "Little Liver Pills," and others. Moreover, it means a decided loss to the Italian Government, whose duty on foreign patents is very heavy, the more because payable in gold, and not in Italian paper. However, as in all the Italian towns from Milan down to Palermo, and all along the Riviera, English and American patents obtain a fine sale, I think it would be in the interest of the makers of those patents to do as the French do in putting a more or less empiric formula to please the Italian Government, and last, not least—their own pockets. Yours very respectfully,

Naples, June 24. J. DURST.

The Patent-medicine Vendors' Association Defend Themselves.

SIR,—Noticing the Editorial notes in the last issue of your journal anent the Patent-medicine Vendors' Defence Association, I consider it my duty, as Secretary, to reply to same. You say the enforcement of the Pharmacy Act is no doubt a proper object; but to enforce it in order to retaliate against the Pharmaceutical Society is not a proper purpose. Therefore, perhaps, Sir, you can inform us in what spirit the Pharmaceutical Society undertook the following—whether it was spiteful or honourable; and, also, was the Pharmacy Act placed in the hands of the Council to ever attempt to bring within its scope matters so trivial?

The solicitors for the Pharmaceutical Society demanded from a firm of grocers the sum of 20*l.* for retailing two well-known proprietary medicines on four different occasions within the period of six weeks, and this without any warning whatever, the firm being in total ignorance as to their acting illegally. Now, if the Pharmaceutical Society were only actuated by the desire to protect the public, why did they not sue them for a penalty of 5*l*, and thus put them right? But no; they were determined to have the lot—20*l.* Was it not time, when such tyranny was being practised throughout the country, that such an Association as this was called into requisition? For instance, in the Pharmaceutical Society *v.* Delve, they took us to the Divisional Court of the Queen's Bench upon ·02 gr. of morphine in a 3-oz. bottle, called "Licoricine." This means a trace, or smell of poison: the whole lot would not kill a mouse. They contended, as you know, we had no right to sell this dangerous (!) article, not being chemists; therefore the public would not be protected. This Association, however, determined to throw some light upon this public-protection business, and instructed our agents to purchase poison in various parts of the country—to wit, Farnworth, Leeds, Oldham, and towns to follow. The odd part of the business is the magistrates seem to think 1*l.* and costs for three distinct offences under the Pharmacy Act by these privileged gentlemen meets the ends of justice; yet the ordinary licensed patent-medicine vendor is fined 5*l.* and costs (without any alternative) for each so-called offence—for retailing a similar article which contains so small an amount of poison as to reduce it to an absurdity to call it poison at all.

You also mention our circular as being impudent. Well, not quite so fast, please! We have not yet sent out more than a thousand of these remarkable circulars, and it may be some information for you to know we are enrolling level-headed members of your own craft daily. The following is a copy of a letter from one of them:—

DEAR SIR,—Enclosed find 10*s.* 6*d.* subscription to the P.M.V.D. Association. I am quite in sympathy with the crusade against the Pharmaceutical Society. What they are doing now should have been done in 1868, and not after twenty-eight years. What is sauce for the goose is sauce for the gander. I hope you will tackle some of the men on the Pharmaceutical Council; the Society ought to be abolished, for they seem to exist for nothing but to collect examination-fees.

Yours, &c.,

CHEMIST BY EXAMINATION.

I may mention the status of this Association is composed of men other than the gingerbread order, and the issue may yet be fought out in the House of Commons.

Yours faithfully,

W. JAMES LEGGETT.

Chemists and the Patent-medicine Vendors' Association.

SIR,—One statement of the Patent-medicine Vendors Defence Association (Limited) is manifestly wrong. They say names of subscribers, that is members, are not published in any way. As a matter of fact every member's name can be seen by paying 1*s.* at the office of the Registrar of Joint-stock Companies, and is thus public property. No chemist, therefore, need suppose he can become a member secretly.

Yours,

Edinburgh, June 23. DRUGGIST. (71/17.)

[It is possible to subscribe to an association without becoming a shareholder. The P.M. Vendors, however, intimate on their circular that they intend to register the subscribers as "members."]

London Allowances on Drug-consignments.

SIR,—I have lately consigned goods to the London market, but when the account sales came I found a loss instead of a profit, although my limit of price had been obtained.

The explanation is that on such goods as drugs and seeds the London docks make allowances for tares, &c., in a most careless manner, at least as far as sellers are concerned, 8 lbs. a bag being often allowed as tare where 2 lbs. is the actual weight of the packing-material.

I should have thought that business was bad enough already not to make it advisable to deter well-meaning owners from sending their goods for sale to London by such practices, and I take the liberty to address you to know if some security cannot be given to sellers that the buyers shall not obtain more than they are entitled to. I enclose my card, and remain, Mr. Editor, Yours obediently,

Paris, June 21. DISSATISFIED CONSIGNER. (70/7.)

To Distinguish Gallic Acid and Tannic Acid.

SIR,—I enclose a distinguishing test for gallic and tannic acids respectively, hitherto, I believe, unknown and unpublished. Tannic acid: To a solution of tannic acid add solution of potash and solution of chloride of barium, a pink precipitate results, gradually darkening. Gallic acid: To a solution of gallic acid add solution of potash and solution of chloride of barium, a blue precipitate results.

Faithfully yours,

26 and 28 Newington Causeway, S.E., June 21. FREDERICK DAVIS.

Explosion of a Syphon.

SIR,—Last week, while engaged making seidlitz-powders, I was startled by a sound like that of a discharged gun in the adjoining room. I found it was a syphon of potash-water which had exploded. Needless to say it was in fragments, and only the tube and pewter head were left intact. There was no one in the room at the time, nor did anything disturb the contents in any fashion. The case in which the syphon was was in the same position that others have been in for

a number of years. Nor was the temperature anything abnormal, the day being wet and sultry. It is, therefore, a mystery to me how this happened, for, as I have said, we have been in the habit of keeping the syphons there for a number of years, and we never had a mishap before, even when the temperature was much higher. Of course, we have had an ordinary soda-water bottle burst occasionally.

PAX. (71/26.)

[The occurrence took place in Scotland. Can any correspondent suggest an explanation?]

Should Enclosures be Charged for?

SIR,—We think a charge of twopence fair, and we are most willing to pay it. It cannot be expected that wholesale houses should receive parcels of goods—some of which might have been purchased through them—take all the trouble of packing, and receive nothing in return. At the same time this charge of 2*d.* should not fall on the purchaser but the seller. Yours faithfully,

74, New Bond Street, W. KEENE & ASHWELL.
June 23.

The Sale of Strychnine Preparations.

SIR,—I enclose samples of order-forms, which I get customers to fill in when they ask for a bottle of "strychnine" preparations. It is not such a formidable affair as signing a poison-book, and I suppose is quite sufficient to keep inside the Pharmacy Act.

If you think the idea good enough you are at liberty to bring it before your readers.

51 Mill Street, Alloa, June 25. JOHN CUMMINGS.

[The slips are as under, some being for Fellows's syrup and some for syrup of hypophosphites:—

Please supply me with a bottle of Syrup of Hypophosphites.
Name.
Address.
Price.
Date.
Sold by

This is not a strict compliance with the Act, which requires an entry to be made in a book "kept for that purpose." We fail to see where is the advantage of the slip over entry in a book. It is not essential that the ordinary poison-book should be used.—ED. *C. & D.*]

The Sale of Morphia Preparations.

SIR,—I thank you for bringing my letter under the notice of your readers, and now beg to offer one or two remarks in reply to your own comments thereon.

The remedy you suggest as "a better method than legislation" might only be applicable for those able to provide the necessary funds, and consequently not of "universal" utility as would be the case if existing facilities were removed. Morphia, too, might well be classed in schedule 1 of the Poisons Act.

That a single bottle of a dangerous compound (when indiscriminately taken) can be procured in the manner specified from one hundred or more different chemists, without suspicion being aroused, shows a defective state of things somewhere. If those named by you are not responsible, from whence does arise this undoubted "flaw" which enables such a stock to be laid in and a mania contracted and encouraged? The Sale of Poisons Act is undone when the patent-medicine stamp so "conveniently covers" a ready and willing vendor from any "moral duty" or obligation regarding such sales. Yours faithfully,

F. C. HERON.

2 Charles Street, Hatton Garden, London,
June 26.

Veterinary Chemists.

Mr. A. Oglesby, 21 Cheapside, Barnsley, guarantees two guineas to a defence fund in case this description should be again challenged.

Ext. Belladonnæ and Lin. Camph.

SIR,—Under this heading I note, in this week's *C. & D.*, a letter referring to a liniment somewhat similar to one I frequently dispense from the prescription of a veterinary surgeon. Perhaps some others may have had a similar experience, and as an interchange of methods would be beneficial, I give it *in toto*:—

Spt. æth. nitros.	℥vj.
Pulv. camph.	ʒiij.
Ext. belladonnæ	ʒiij.

M. Ft. linim.

The first time I dispensed it I made a mess. I dissolved the camphor in the spirit, rubbed down the extract (green) with a few drops of water, and added the spirit gradually. The product in a few minutes separated and became an ugly lumpy mass. The next time I tried a different plan. I rubbed down the extract with an equal quantity of water on a slab, and instead of using the B.P. spt. ether. nitros., I used the liquor (1 to 7), which enabled me to add more water—perhaps 2 oz.—without affecting the medicinal effect of the liniment. The product was a fine homogenous liquid, which did not separate. I have always followed the same plan when repeating with satisfactory results. What would a fair charge be for the liniment? Yours, &c.,

Kintore, N.B., June 23. ALFRED G. KEITH.

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY.

70/46. *Beccabunga.*—It is an open question whether it is necessary to name the poison on the label of a proprietary article, or whether the name of the article is sufficient. We think it is, and that the label you quote would meet the requirements of the Act if the name and address of the seller be added, and, if the poison be one in the first part of the schedule, fulfilling the conditions specially applicable. The question is discussed in an article published on September 10, 1892.

70/43. *Taffy.*—B. is bound by his contract. If he will not supply other goods to the value, you can sue him for the value of those returned. Give him notice that you intend to do this if the matter is not settled within the specified period. We cannot assist you further in the other matter.

71/34. *Eleven Years' Subscriber.*—The unqualified partner in a firm which keeps open shop for the sale of poison is liable to a penalty under the Pharmacy Act.

70/51. *New Subscriber.*—See answer to "Poisons," May 19, 1894. Where does Attfield say that ferrocyanide of potassium is a metallic cyanide, and should be registered? In the 15th edition of his "Chemistry," page 324, he says it is "not a cyanide."

72/3. *One in Doubt.*—It would be illegal under the Sale of Food and Drugs Act to supply tinct. opii aquos. as laudanum. Laudanum is a synonym of tinct. opii, B.P., and the latter must be supplied for it.

73/25. *London.*—A valuation to be correct must be taken at present, not necessarily at cost-price, values.

72/52. *Ajax.*—We should think it would be an infringement of the Dentists Act for an unregistered person to describe himself as "specialist for teeth-extractions."

66/69. *C. T.* took a small-pox case to a semi-detached cottage, of which he is the owner. The tenant of the house

next door (which "C. T." also owns) refuses in consequence to pay his rent. None of his family took the disease. "C. T." asks our advice. [The fact that the landlord brings a nuisance next door (if a small-pox patient can be called a nuisance) would not be any ground for refusing to pay rent, as it could hardly be said to be a breach of the implied covenant for quiet enjoyment, and even that would not justify the tenant in refusing to pay rent unless the house was made uninhabitable, and possibly not even then. If the tenant had left the house at once, it might have then been a question for the jury whether he was justified in doing so. If there was no other question, we should suggest a distress being put in. With regard to a second question—about notice to quit—if rent has been received for any period of time commencing after the first notice had expired, that creates a fresh tenancy; but we do not see how that point affects the case of small-pox, because, by giving a second notice, the landlord would in all probability be held to have waived the first notice, so that the man in question would be considered a tenant, and be entitled to the rights of a tenant. But we do not see how any of his rights *qua* tenant were infringed.]

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

68/29. *R. L.*—In preparing Lin. Pot. Iod. c. Sapone according to the B.P.—either according to present B.P. or the previous one—if curd-soap be used, it ought to be a creamy consistency, somewhat like well-made cold-cream; never a transparent jelly. If you read the character of the preparation given in the B.P. you will find it so mentioned. To make a transparent jelly you must use pure oleic-acid soda-soap, made by neutralising and boiling together oleic acid and solution of soda hydrate. The oleic-acid soap as made according to the original formula, published for the transparent jelly, is rather a roundabout process. It is:—

Almond oil	1¼ lb.
Sulphuric acid	1 oz.
Solution of soda	10 pints

Add acid to oil, stir, and stand twenty-four hours. Pour into solution of soda, and heat until it becomes transparent; then cool, when the soap floats on top of the liquid as a cake.

To purify the soap, dissolve it in 10 pints of boiling water, add strong solution of 5 oz. common salt, when the purified soap separates out.

59/63. *Ludwig.*—Clove Cordial, similar to what is sold by publicans.—Make an essence of cloves by digesting 2 drachms of bruised cloves and 1 drachm of oil of cloves in 3 oz. of rectified spirit for two days; filter, rub up with carbonate of magnesia, and add about 80 oz. of water; filter again, and in the filtrate dissolve 1 lb. of good white sugar.

62/62. *J. G.*—Evanescent Ink.—Oxide of cobalt dissolved in acetic acid, and a little nitre added, gives a pale rose colour when the paper is warm, but becomes quite invisible when cold; or a solution of equal parts of sulphate of copper and sal ammmoniac gives a yellow on warm paper and becomes invisible when cold. But judging that you wish an ink that will remain visible when written for a time, and then fade, perhaps tincture of iodine diluted with water or spirit, and a trace of simple syrup added, will suit you. This will gradually fade, but if wished to disappear quickly hold over steam of boiling water containing ammonia, and expose to direct sunlight for a little, or sponge gently with solution of hyposulphite of soda. To Remove Lines Made with a Lake-coloured Ink.—The only substances likely to effect this would be chloride of lime and, possibly, oxalic acid. They must be cautiously applied, preferably made into a tablet with tragacanth or gelatine, moistened with water and rubbed over the lines.

66/18. *Jean.*—See answer to "Caryophyllus," June 16, page 846.

66/6. *Irishman.*—The sample of Toilet Liquid is quince mucilage, with a little eau de Cologne and glycerine. This will give a similar preparation:—

Sem. cydonii	℥ss.
Aq. destillat.	Oj.

Boil over a slow fire for ten minutes, strain through wetted linen with pressure, and add—

Aq. coloniensis	℥j.
Glycerini pur.	℥j.

M.

Household Embrocation to sell, stamped, in 6-oz. bottles at 1*s.*:—

Ol. terebinth.	℥iv.
,, sesami	℥vj.
Camphoræ	℥j.
Ol. succini..	ʒ ij.
Liq. ammon. fort.	℥iss.
Aqua ad	Oj.

M.

Dissolve camphor in turps, add oils; dilute ammonia with twice its bulk of water, mix and shake well, then add remainder of water gradually. A little sassafras or Sanitas oil may be added, principally to disguise the smell.

53/57. *Manx* has used many liniments for cramp in the legs but without benefit. Now he wants another and desires to know if the "cramp would occur whilst bathing." There is a shade of ambiguity about this last question, but, passing that over, we should say that bathing is the best thing possible for bringing on cramp, and when "Manx" feels tempted to go in for that form of amusement, he should remember Mr. Punch's advice to those about to marry—and take it.

As for the liniment we should recommend the following as most likely to succeed:—

Heat;
Rubbing skin with hard towel;
Powerful kneading of muscles;
Forcible stretching of limb, ana q.s.
Sig.: Apply till the attack passes off.

This may not be quite an orthodox liniment, but the orthodox liniment is of very little use in cramp, and "Manx" would probably get far more good from 10 grains of bromide thrice daily, than from all the external concoctions he can apply.

67/3. *F. M. W.*—There is no liniment known as "Nine Oils" used at St. Bartholomew's Hospital.

58/68. *V. H. G.* wants a formula for a Phosphoric Acid and Quinine Tonic (Homœopathic Preparation). If anybody can supply it, perhaps he will be good enough to explain for our benefit what there is homœopathic about the preparation.

61/22. *P. F. Sweer.* (Paris).—The Alkaloid of Areca-nut is arecoline. It is given to dogs in the form of the hydrobromate, the dose being of $\frac{1}{10}$ grain per kilo. weight. We have handed your inquiry to a dealer in the article, who will communicate with you.

63/4. *Bristol* asks respecting medicinal uses of Monosulphite of Soda (M. Poron). We do not know this preparation, and can only find reference to two sulphites of soda used in medicine—the normal sulphite and the bisulphite. Most likely it will be a preparation of the normal sulphite. The medicinal properties are similar to those of sulphurous acid, acting as a disinfectant and preventing fermentation in the stomach and bowels. The dose is from 5 to 20 grains. There is also in the French Codex a syrup of monosulphide of soda.

67/67. *X. Y. Z.*—To Dye Billiard-balls Scarlet.—Make a strong solution of cochineal in the usual way with alum and carbonate of potash; allow it to cool. Place the ball in it for some time; take it out and place it for a time in solution of chloride of tin, and dry. If not sufficiently deep, repeat process a second time. Do not use hot solutions, as they tend to crack the surface and warp the balls. A solution of scarlet aniline dye may be used, but is not so permanent.

63/23. *R. A. W.* has been informed by a plumber that while Water may be Raised by means of the Suction-pump from 30 to 34 feet, under the same conditions Beer can only be raised about 19 feet. He wishes to know if this be true; if so, the reason; also whether the presence of CO_2 in the beer has anything to do with the result. The CO_2, so far as it has any influence, tends to raise the fluid, but being present in comparatively small proportions, varying from 0 1 in some draught beers to 0 5 in certain bottled beers, it would not much affect the result. The *rationale* of the suction-pump is atmospheric pressure, the pressure of the atmosphere, in a perfect vacuum, being sufficient to support a column of water, at the sea-level, of about 34 feet; but as the vacuum formed by the piston is far from a perfect one, the length of the pump-tube is seldom more than about 28 feet. It stands to reason that the heavier the fluid the less the height it is capable of being raised—for example, mercury would only be raised about 30 inches. The gravity of some beers being as high as 1 0286, or even more, we can quite understand the limit given by the plumber.

72/48. *Nux Vomica.*—Hager gives the following as a formula to imitate the Eau Dentifrice de Dr. Pierre:—Make a tincture by digesting ½ oz. of star-anise in 8 oz. of S.V.R. Add 50 drops of oil of star-anise and 50 drops of oil of peppermint.

68/23. Emulsion of Glycerine and Cucumber.—You do not give us exact reference to the formula for the emulsion which you say separates. We presume you mean the formula originally published on page 125, July 25, 1891. From the directions given, it is evident that soap has been left out from the formula. If you modify the formula in this way a good emulsion will be formed: curd soap ʒiv., or borax ʒij.; otherwise follow the directions given. Cucumber ointment and cucumber pomade are synonymous. Consult advertisements for suitable firms.

57/6. *Polish.*—Liquid Metal-polish.—Two good formulæ will be found at page 250, February 13, 1892. If preferred, mineral crocus may be used in place of the red oxide of iron in the first formula given; it would be an improvement in the second. Recommend Spanish whiting to finish the polishing.

69/56. *Mizpah.*—Varnish for Leather (Greasy), something that will dry upon "greasy leather."—A spirit-varnish would not be suitable. Gum sandarac, seed lac, of each, 4 oz.; dragon's-blood, 4 drachms; Canada balsam, 2 oz.; oil of turpentine, 2 pints. Shake up with 4 oz. powdered glass for a day or two in a warm place; allow to settle, and decant the clear portion. Or dissolve indiarubber q.s. in petroleum or mineral naphtha to give sufficient consistency. Add a little painter's oil of lavender.

70/17. *Baron.*—To Cover the Smell of Tallow used in the preparation of a lubricating-grease, cheapness being a consideration, use oils of citronella, origanum, or artificial musk, which is so cheap that it is being used in ordinary cleansing-soaps by certain makers.

70/11. *Wash.*—Hair-restorers and Hair-washes.—Consult page 366 Diary, 1894, and the following numbers of the last volume (1893):—Page 129, July 22; page 264, August 12; page 66, July 8; page 619, October 21. All are reliable and useful remedies. See also page 175, Diary, 1891.

57/1. *Derby.*—Meat and Milk Preservatives.—Boric acid, 2 parts; borax, 1 part. Mix; a teaspoonful to each gallon of milk. For meat dissolve in water, and allow meat to soak in the solution for a time. Solution of bisulphate of lime is also used for meat, or a solution of borax, 8 per cent., dissolved in hot water, and 10 per cent. salicylic acid added. This may be used in the same way as the borax and boracic acid. Boracic acid alone, or salicylic acid 15 grs. to the pint, may also be used. See also page 357, Diary, 1894.

68/19. *Tenax.*—Lemon-squash.—See page 224, August 10, 1889, and page 433, March 25, 1893.

67/72. *I. P.*—Pulv. Iodoform Co., as prescribed by a veterinary surgeon, we do not know. The following is a modification of a compound powder which we have seen used largely some years since. Perhaps it will answer your purpose:—

Iodoform	ʒij.
Gum benzoin	ʒj.
Camphor	ʒj.
Starch	½ oz.
Prepared chalk	½ „

Powder benzoin and camphor, add iodoform, and mix with starch and chalk. Pass through muslin or a fine sieve, rejecting any rough particles.

58/72. *G. W. S.*—The Application for Getting-up the Bottoms of Boots would seem to consist of talc or French chalk, along with small quantities of fine putty-powder, petroleum oil (lubricating), methylated spirit. Perfume with citronella oil, and colour with an aniline colour or calamine. For proportions as a basis for experiment, try: talc or French chalk, 1 oz.; putty-powder, ¼ oz.; petroleum oil, ¼ oz.; methylated spirit, ½ oz.; water, 2½ oz. Rub up the powders with the oil, add the spirit, to which a few drops of citronella oil have been added, lastly the water. "Shake the bottle."

68/28. *H. C. C.*—Mixture for Tape-worm and Scour in Calves indicates a mixture on these lines:—

Tr. opii	ʒij.
„ valer. am.	ʒiij.
Inf. catechu	℥ij.
Liq. calc. sacch.	ʒiv.
Dec. quercûs ad	℥vj.

M.

Dose: ʒj. twice or three times a day.

Numerous suitable formulæ will be found in "Veterinary Counter Practice." Should the above fail to give satisfaction, try that given at page 31 of "Veterinary Counter Practice." It will have much the same appearance.

63/49. *T. L.*—Cough-powders (Veterinary) contain tartar emetic, traces of iron, and, we think, sulphate of potash; the iron, most likely from red oxide, used to give the reddish colour. This is all we can make of them from the time at our disposal. They do not readily admit of an exhaustive analysis.

71/16. *Anxious.*—Sample of Skin-lotion used for Ringworm and Allied Skin-diseases consists of horax, bicarbonate of soda, and camphor-water. Try this, which you will find very similar:—

Glycerini boracis	ʒj.
Sodæ bicarb.	ʒij.
Aq. camph. ad	℥x.

M. et solve.

74/7. *J. R.*—We have communicated with the English agents as to the lowest poisonous dose of bromidia (Battle's), and they inform us that the composition of the preparation is published, and reference to any standard authority on practical medicine should give you a very fair idea as to the toxicity of the compound.

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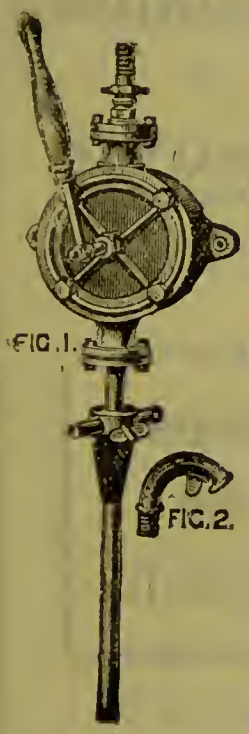

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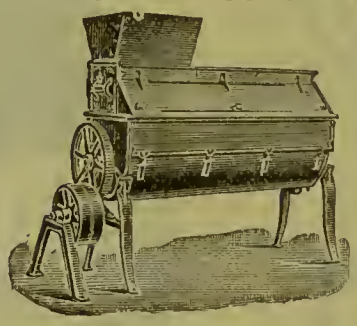

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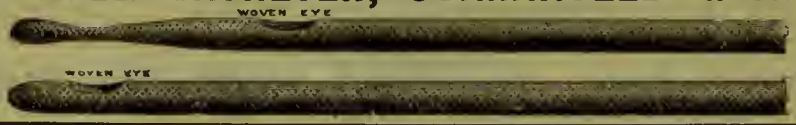

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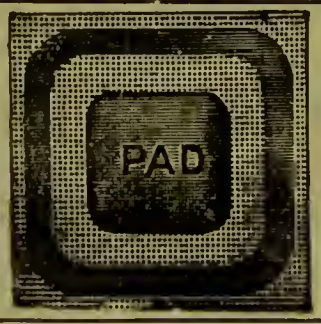

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Prepared with a pad of absorbent cotton-wool in the middle, and a self-adhesive border. Very useful for dressing wounds, ulcers, &c., and for shielding diseased surfaces from friction. Perfection for Bed Sores. Made all shapes and sizes, in boxes of 1 dozen. Can with ease be applied by patients ignorant of the science of bandaging.

An Army Surgeon writes:—"I think the idea is a capital one, and have no doubt but that it will be the first field dressing of the future."

Three dozen assorted (sizes inside the border: 2×2, 2×3, 3×3, 3×4, 3×5, and 4×4 inches—6 of each), on Holland, 2/6; on Waterproof Sheeting, 3/-. MANUFACTURED ONLY BY

A. DE ST. DALMAS & CO., Medical Plaster Manufacturers, LEICESTER.

May be obtained of all Chemists and Wholesale Houses.

VINCENT WOOD'S SURGICAL APPLIANCES.

THE LARGEST MAKER IN THE WORLD.

Suspenders, Belts, Bath Gloves, Trusses, Elastic Hosiery, Chest Expanding Braces, Protectors, Enemas, Bandages, &c.

Telegraphic Addresses—
"Acmo London." "Elastic Nottingham."

ESTABLISHED 1840.

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Steam Works—Nottingham, & Herne Hill, S.E.
Stand at Industrial Exhibition, Earl's Court, Section 14, near Main Entrance.

DR. MARTIN'S PURE RUBBER BANDAGES.

Registered Trade Mark.

For the Radical Cure of Varicose Veins, Ulcers, and other Diseases of the Leg.

Caution.—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations.*

Complete Price List, Trade Discount, and Dr. Martin's Pamphlet post free.

PRICES.

No.		Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm ..	6	2¼	3/6
3.	Thick " " " " ..	6	2¼	4/-
1B.	Thin, for leg below knee..	10½	3	5/6
1A.	Thick " "	10½	3	7/6
8.	Thin, for leg and knee	14	3	7/6
7.	Thick " "	14	3	9/6
9B.	Thin, for leg and thigh	21	3	10/6
9A.	Thick " "	21	3	13/6

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS,**

INDIGESTION, SICK HEADACHE, COSTIVENESS, DYSPEPSIA, BILIOUSNESS, LIVER COMPLAINTS.

Mild in operation; perfectly safe and free from injurious drugs. *Sold in bott'rs retail at 1/1½, 2/9, 4/11/- each*

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OINTMENT.

CURRENT PRICES { 1/1½ size, **9/-** per dozen. 2/9 „ **25/6** „

5% Cash discount on £10 orders accompanied by cheque. Less quantities strictly NET. 1/- and 1/6 per doz. extra is charged on less quantities than 3 doz. of either size.

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The SOLE Wholesale Depot for Homocea,

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FLESH GLOVES. Per doz.
3d. Turco 2/-
6d. „ 2/8
1/- „ 4/6 & 5/6
Glass-top Counter Boxes of 1 doz. 6d., 3/6; 1 doz. 1/, 6/-
A variety of patterns in stock.

SMELLING-SALT BOTTLES.
200 patterns in stock. Ask for New Price List.

FLAVOURING ESSENCES. Per doz.
½-oz. bots. 2/3
1-oz. „ 4/-
Almond, Vanilla, Lemon, &c.

SPRAY PRODUCERS.
1/- Single Ball, per doz., 8/-.
Good Double Ball Sprays at 15/-, 21/-, 24/-, 27/-, and 33/-.

BATHING CAPS.
6d., 4/6; 1/-, 7/6 per doz.

SPONGE BAGS.
BEST QUALITY.
No. 1 2 3 4 5 6
4/6 5/6 7/- 8/6 10/- 12/-
Per doz.

SPONGES ON CARDS.
At per doz.
1d. 2d. 3d. 4d. 6d. 1/-
6d. 1/- 1/6 2/- 3/- 6/-

SPONGE NETS.
Per doz. 4/6, 8/-, 12/-.

INSECT POWDER TINS.
Per gross.
1d., 2/3; 3d., 5/6; 6d., 7/9; 1/-, 9/-.

LAVENDER SMELLING SALTS.
THE IMPERIAL.
6d. retail, per doz. 4/-.

LEMON JUICE EXTRACTORS.
New shape to hold the Juice.
Per doz., 3/6.

LIME JUICE AND GLYCERINE.
6d., 3/4; 1/-, 6/8 per doz.

CARDED GOODS: SOOTHERS. Per doz.
3d. Bone & Rubber Ring 2/-
6d. „ „ „ 3/-

COMBS.
THE "SAMPSON."
Size 7 in. 7½ in. 8 in.
Per doz. 2/- 2/6 3/-

2d. Perfumes, 1/3 per doz.
2d. Musk Lavender, 1/2 per doz.
1d. Flower Seeds, 6/- per gross.
3d. Flexible Hair Curlers.
Per card, 1/9, &c., &c.

Druggists' Sundries of all kinds, such as Vials, Corks, Dispensing Flats, Wax, Twine, Trusses, Bougies, Catheters, Bottle Caps, easures, Pill Boxes, Willow Boxes, Elastic Appliances, &c., &c., kept in stock.

FRANCIS NEWBERY & SONS
(ESTABLISHED A.D. 1746),
Druggists' Sundriesmen and Perfumers,
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No. 349.—The 1894 "Monster Bottle," assorted colours, empty 3/6 doz., filled with Strong Ammonia 4/- doz.

MARVELLOUS VALUE.—Lavender Water and Cologne, in Tube-shape Bottles, with Sprinklers, 2/6 doz. Selling in thousands.

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Id., 3d., & 6d. INSECT POWDER.—5/- gross; 3d., 1/6 doz.; 6d., 3/- doz. Empty boxes for same, 1/6, 3/6, and 4/9 gross.

WISE BUYERS WON'T DELAY, BUT STOCK AT ONCE.

!!! Buyers of Mag. Cit., write us first and save money; we can offer special bargains!!!

SHIRLEY BROS., 105 Whitecross St., E.C.

GREAT REDUCTION IN PRICES!

DENOUAL'S MEDICINAL CAPSULES

ARE THE BEST AND CHEAPEST.

ON THESE **MEDICINAL CAPSULES** CHEMISTS ARE ALLOWED A LARGE PROFIT.

SANTAL OIL CAPSULES, PERUVIAN MIXTURE CAPSULES, COPAIBA BALSAM CAPSULES, CUBEB OIL & COPAIBA CAPSULES, MALE FERN CAPSULES, &c.

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All Drugs Warranted to be Genuine

JULES DENOUAL,
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POTASS. CYANIDE,

Nitrate of Silver, Chloride of Gold,

AND OTHER

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ARE THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

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R. H. BARRETT'S PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/- 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

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FLINT GLASS BOTTLE WORKS,
THE OVAL, CAMBRIDGE HEATH, LONDON, E.
Telegraphic Address—"FOREFRONT LONDON."

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MANUFACTURE THE FOLLOWING SPECIALITIES—

"STIPENDUM" CORK STOPPERS, in all sizes.
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"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles.

"STIPENDUM" GREASE-PROOF COVERED POTS,

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended.

To be had of all Druggists' Sundriesmen. *Wholesale only of the Company.*

GLASS BOTTLES

GOOD AND CHEAP. From Stocks in London or direct from the works.

THE NEW SHAPE FLATS,
With rounded edges, or the ordinary kind, plain or graduated.
3 and 4 ounce .. .. 8/- per gross.
6 and 8 " .. .. 9/- "

WHITE MOULDED PHIALS.

½ oz.	1 oz.	1½ oz.	2 oz.
3/6	3/9	4/6	5/3 per gross.

PANEL BOTTLES.

2 oz.	4 oz.	6 oz.	8 oz.
7/-	8/-	9/-	9/- per gross.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample bottle sent free on application.

I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS,
Francis St., Tottenham Court Road, LONDON, W.C.
Established 50 years. Bankers—London and Westminster Bank.

52

For CLEANING PLATE!

BRADLEY & BOURDAS'S
ALBATUM or WHITE ROUGE,
For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.
Sold in Boxes at 1s. and 2s.; Tins, 6s.

6 PONT ST., BELGRAVE SQ., & 48 BELGRAVE RD. LONDON S.W.

FINEST CRUSHED LINSEED.

GUARANTEED ABSOLUTELY PURE.
NO OIL EXTRACTED, NO BUFFAM ADDED.

£15 per ton, 16/6 per cwt., 8/6 per 56-lb. bag, carriage paid; or put up in tins for Retailers. Liberal Discounts to Hospitals and Wholesale Buyers. Samples Free. Feeding Linseed a Speciality.

SIZER BROS., Seed Crushers, **TOWER OIL MILLS, HULL.**

By Royal Letters Patent.

THE TEETHING PADS TO SELL.

THE "LILY" BABY COMFORTER.

The teats are seamless, and always retain their proper shape.
THE CHILD CANNOT POSSIBLY IMBIBE AIR.

All Patterns may now be had, fitted with Marriott's New Patent Ring Socket, No. 17,135.

For inserting Bone, India-rubber, and other Rings into Teething Pads, Baby Comforters, or other articles without cutting the ring, which is guaranteed not to break.

3d., 4d., 6d., 9d., & 1s. Retail.

Patentees and Manufacturers, E. MARRIOTT & CO., HASTINGS

FOR OTHER PATTERNS SEE 1893 DIARY, PAGE 295.

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First Established

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MEDICINES

THE

SUSPENSORY BANDAGE

TO RECOMMEND IS THE

"SYRACUSE,"

With Self-Adjusting Loop at Back of Pouch.

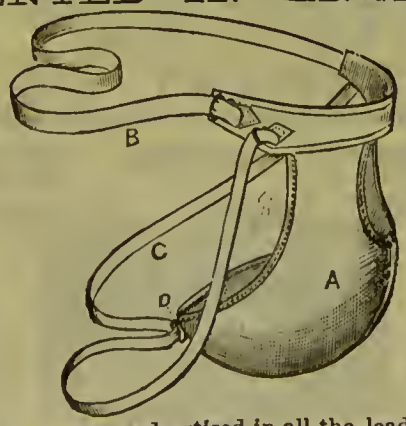
(PATENTED IN ENGLAND.)

HAS THE LARGEST SALE OF ANY SUSPENSORY BANDAGE IN THE STATES.

3 SIZES—Large, Medium, and Small.

Made in Seven Qualities, to suit all Markets.

Each Bandage is carded separately, with Printed Guarantee.



Each Bandage bears a Guarantee to give satisfaction to wearer, or money returned at our expense.

COTTON POUCHES.

Nos.	10	16	21
	6/6	12/	18/ per doz.

SILK POUCHES.

Nos.	26	31	34	36
	24/	30/	48/	72/ per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

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53

£1,000,000

This is the sort of fortune many an old-fashioned Varnish Maker has left behind him, but

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23 Billiter Street, London, E.C.

Do not aspire to these big figures, but are anxious to prove that their

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In 1 Gallon Cans free, as well as their

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are the BEST and CHEAPEST in the Market.

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THROUGH THE CHIEF WHOLESALE HOUSES.

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NO MORE SOFT LINEN WHEN STARCHED.

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The Greatest Boon ever offered to the Laundress fo imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.

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Makes Old Linen like New.

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WILL GRIND, GRANULATE, OR SHRED

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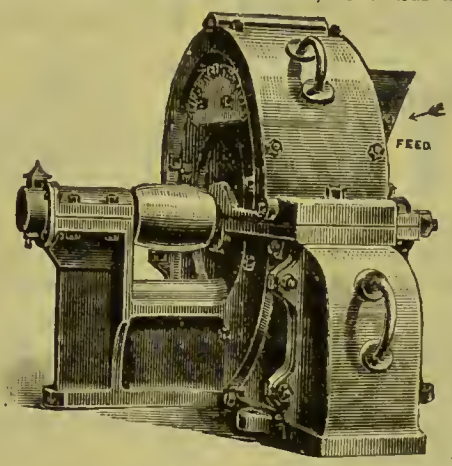

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Absolutely pure. Nothing finer imported.
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Special quotations for contracts up to December, 1894. Large Stocks kept.

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Three Gold Medals & Highest Award World's Fair, Chicago.
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Best Mechanical work from impressions or models. Care and promptitude may be relied on. Moderate charges, inclusive of materials.
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EAU F. JOUVENCE, GOLDEN.
Producing Flaxen Golden Hair.
Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.
This is a very superior article. In Bottles at 3/6, 6/-, & 10/-
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(SHOWROOMS AT CHARING CROSS HOTEL.) [3]

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Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate. In casks, 13 gallons to 140 gallons; small casks, 3s. 9d. per gallon, carriage allowed if paid within three months. In wine-bottles (not less than 3 doz.), at 9s. per doz. bottles included. Casks and cases extra, and returnable.
Sample on application. Special quotations to large buyers.
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Prices and Samples on application to SOLE AGENTS—
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TRADE MARK.
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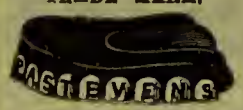

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Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name. A sample box of 3d. sticks sent post free for 12 stamps. Price list and sample free.

JUNE'S HEALTH BATH SALT.
A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.
GOOD PROFIT GUARANTEED.
WRITE FOR SAMPLES & TERMS.
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SPECIALITIES: Glycerine — Gum Arabic — Gum Tragacanth—Pure Beeswax—Honey.

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ARE THE SIMPLEST & BEST. Time & Instantaneous **SHUTTERS**
LARGEST SALE IN THE WORLD
Time & Inst., from 18/6; Snap Shot, from 10/-; Focal Plane, from 35/-
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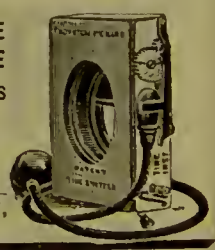

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Supplied in Original Bottles ready for Patient's use (stamped), to retail at 4/6 each; also in 1-lb. Bottles for Dispensing, by the Sole Manufacturers:—
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Manufacturers of
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THE "MORSTADT" **Cachets**
Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 18½ grains Quinine or Salicylic Acid.
MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.
SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 6/6.
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ABSOLUTELY PURE ESSENTIAL OILS.

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CRYSTAL WHITE, DOUBLE DISTILLED and REFINED

PEPPERMINT, WINTERGREEN, ERIGERON,
SPEARMINT, WORMWOOD, TANSY, &c.

A. M. T.'S CRYSTAL WHITE, DOUBLE REFINED ESSENTIAL OILS are GUARANTEED ABSOLUTELY PURE, and are UNEQUALLED in SOLUBILITY, STRENGTH, FLAVOUR, THERAPEUTIC VALUE, WHITENESS, and GENERAL EXCELLENCE.

They are supplied in Bottles of 1 lb., 8 oz., 4 oz., and 500 grammes, &c., each bottle having the producer's name blown thereon, being sealed with metallic seals similarly impressed, secured by guarantee of quality over the producer's signature. To secure the most rapid and complete introduction possible, the prices are placed much below their true value, bringing the *highest quality produced* within the reach of all.

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Distillers of Essential Oils and Cultivators of Medicinal Plants,

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MR. J. T. HOARE Surgeon-Dentist, has vacancy for outdoor Pupil; tall, gentlemanly, mechanical youth, living North London, preferred; premium required, 50 guineas; Talbot House, 393 Holloway Road, N.; light and healthy laboratories; good mechanical instruction given; Mr. Hoare served 5 years, and altogether has had 22 years' experience.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

See Notice on front page of this Supplement.

AN Assistant as Dispenser. Apply personally if possible, if by letter give all particulars, to J. G. Shirley & Son, 2 Westbourne Grove, Bayswater, W.

JUNIOR, aged 20, at once; no Sunday duty; an energetic, pushing Counterman, accustomed to General Retail; abstainer. Address, H., Stratford Drug Stores, E.

JAPAN.—Good opening for a qualified Junior; good salary; short hours; passage paid out and home. By letter only, to Dakin Bros., 87A Leadenhall Street, E.C.

JUNIOR wanted, indoors; age about 21; must be active and obliging. Apply, stating salary required, age, height, reference, &c., to D. L., c/o Evans, Gadd & Co., Exeter.

QUALIFIED Assistant; aged about 23; one accustomed to a good-class business. Address, giving full particulars, to D., 6 Jermyn Street, Princes Park, Liverpool.

A SMART Junior Assistant, outdoors, about 22, for High-class Dispensing business. Apply by letter, P. C., c/o Meggison, Miles Lane Upper Thames Street, E.C.

A COMPETENT Assistant wanted immediately; not under 24. State usual particulars and enclose photo (which would be returned) to Wain, Chemist, Ripley, Derbyshire.

WANTED, Locum tenens (indoors) for a fortnight, early in July; must be well recommended and of good experience. Apply, Bell & Co., 100 Commercial Road, E.

SITUATIONS OPEN—Cont.

ACTIVE and obliging Assistant for the Retail Counter, outdoors. Apply, with photo, stating age, height, and experience, to E. J. Kitson, City Drug Stores, Worcester.

IMMEDIATELY, Part-time steady and reliable Assistant, aged about 23; after 5 o'clock, and alternate Sunday duty. Apply, C. P., 35 North End Road, Walham Green, S.W.

EDWIN HALL, Weston-super-Mare, is in immediate want of an Assistant (qualified); send full particulars, age, height, salary, references, and photo (which will be returned).

ASSISTANT wanted, with good-class experience and knowledge of Postal work; must have good references. 125/23, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

BY July 6, Junior Assistant (indoors), of gentlemanly appearance and good address; must be a reliable Dispenser; enclose photo (to be returned). Apply, H. Alcock, London Road, Bath.

WANTED, at once, qualified Assistant, good Dispenser, Prescriber, and Extractor, to Manage small business. Apply, with full particulars, to J. R. Corbett, Queen's Road, Halifax.

AT once, a steady, gentlemanly Assistant, with good references; aged 22 to 25 years; outdoors. Apply, with full particulars, to Walker, Pharmaceutical Chemist, 8 and 9 Broad Street, Bath.

WANTED, good Junior Assistant; outdoors. Apply, with particulars as to experience, age, salary required, &c., to Blackwell, Hayes & Co., Pharmaceutical Chemists, Birmingham.

JUNIOR Assistant; indoors; must be a quick and accurate Dispenser and good Counterman. Apply, with usual particulars, enclosing carte, to Henry Davis, Dispensing Chemist, Newbury, Berks.

WANTED, thoroughly reliable qualified man for quick business; used to Extraction and capable of taking entire charge of Dispensing and sale of Poisons. Apply, Ince, The Stores, Dudley.

WANTED, steady, gentlemanly Assistant; Minor qualification; aged 22 to 26 years; indoors; applicant, please state salary required, and reference, to H. F. Greenough, Chemist, Warrington.

SMART Junior wanted at once, for good-class Dispensing business; must be gentlemanly and have undeniable references; personal application preferred; indoors. Bevan, West-end Lane, West Hampstead.

FOR the season only, competent Assistant, for Light Retail and Dispensing Business; outdoors. Please state age, height, references, salary, and photo (if possible) to Manager, 8 North Marine Road, Scarbro'.

QUALIFIED Assistant wanted for Light Retail and Dispensing business; indoors; reliable dispenser; only one kept. Apply, with full particulars and photo, to B. Whitrow, 15 St. John's Road, Tunbridge Wells.

SOUTH AFRICA.—Chemist's Assistant with Minor qualification required; aged 25; character must bear strictest investigation. Full particulars to 127/30, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

DISPENSER wanted by July 9; one accustomed to counter and Surgeon's dispensing; must be accurate and quick. For further particulars apply by letter to H. M. K., 3 Broomwood Road, Wandsworth Common, S.W.

AT once, a Junior, with Minor qualification, for Light Retail and Dispensing; no Sunday duty; good character indispensable. Apply, stating age, salary, and full particulars, to W. W. Ragg, Chemist, Lower Edmonton, Middlesex.

WANTED, a qualified and an unqualified Assistant, accustomed to a good Retail and Agricultural business. Apply, stating age, height, salary required, references, &c., also enclose photo, Robert Donington, Market Place, Spalding.

WANTED, qualified Assistant to manage high-class Cash business; knowledge of Photography; used to Store prices; good salary. State age, height, experience, and enclose photo to J. B. Foggitt, Pharmaceutical Chemist, Southport.

WANTED, a gentlemanly Assistant; must be a reliable Dispenser for a first-class Cash business. State full particulars as to references, salary (outdoors), &c., enclosing photo, which will be returned, "Manager," 36 Triangle, Clifton.

WANTED, single gentleman as Manager; one accustomed to Prescribe and Extract, about 30 years of age. Apply stating salary required (indoors), age, height, &c., to "West," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

REQUIRED, immediately, an outdoor Assistant for 6 or 7 weeks; must be of good address and accustomed to quick business. Apply personally, Friday or Saturday, or with particulars and photo, to W. V. Wright, 25 Broadway, Hammersmith, W.

GOOD Junior (indoors) for good Country Retail and Dispensing; good Counterman and obliging. Apply, stating age, salary, experience, height, and enclosing carte (to be returned), to John Gilling, Pharmaceutical Chemist, Saffron Walden.

TRAVELLER.—Wanted, a man who has had some experience; one accustomed to call upon Surgeons and Institutions preferred. Address, with full particulars, stating experience, age, &c., B. C., c/o W. Charity & Sons, 101 Leadenhall Street, E.C.

QUALIFIED Assistant, for good-class business; indoors; aged about 24; must be a quick, neat, and accurate Dispenser, and good Counterman. Personal application preferred; if by letter, give usual particulars, T. F. Elton, 28 Endsleigh Gardens, N.W.

SECOND required for good-class pushing Cash trade; outdoors; no Sunday duty; must be competent, and a good salesman. State salary required, particulars of last two appointments, and all customary information, to Timothy White, Chemist, Portsmouth.

MANAGER wanted immediately, qualified, in a Mixed Country Chemist's business; abstainer preferred; must be reliable and have good references. Apply, stating full particulars as to salary, experience, age, and references, to Mrs. Williams, Chemist, Coleford, Glos.

EDWARD BROWN, 159 Woodhouse Lane, Leeds, requires a diligent Junior Assistant who is conversant with the duties of a good middle-class Family business, and can be well recommended; salary £3 per month (indoors); respondents, name referees on application.

ASSISTANT (indoors), for good-class Dispensing and Light Retail, about July 23; must be quick and accurate Dispenser and good Counterman; abstainer preferred; send photo (to be returned), salary, age, experience, and full particulars. Tame & Co., Boscombe, Bournemouth.

JUNIOR wanted; vacancy would suit young man of business-like habits just out of apprenticeship, and desirous of obtaining experience in high-class Store trade in Eastbourne. Send full particulars of experience, and salary required, to G. C. Dusart, 135 Queen's Road, Brighton.

MANAGER wanted for Country Branch; 4 miles from fashionable seaside town on South Coast; suited for one reading up for major or medical; first-class references essential. Apply, stating age, height, salary required, &c., to "Pheuacetin," c/o Barron, Harveys & Co., Giltspur Street, London.

WANTED, qualified man to assist in Retail and the manufacture of Proprietaries for Wholesale; one preferred with a knowledge of Pill-making on a large scale; salary £2 per week; age not under 30. Particulars to Flesher Raybould & Co. (Limited), Chemists, West End Pharmacy and Drug Stores, Dudley.

OUTDOOR Assistant (qualified) required for a good-class Country Business; no objection to a married man; a permanency to a suitable person. Apply, with full particulars, age, height, salary, references, and photo (to be returned), to "Chemist," c/o Messrs. Barron, Harveys & Co., Giltspur Street, E.C.

WANTED, at once, outdoor Assistant, about 23, unmarried, for old-established Country business, with Dispensing; highest references; good writer; no Sunday duty. Apply, with full particulars, age, height, experience, and salary required, enclosing photo, to Mr. Nichols, Chemist, High Street, Petersfield.

UNQUALIFIED Assistant wanted; must be young, active, and willing, with good references, and some experience in a brisk business; no Sunday duty; full half-holiday weekly. State age, salary expected (outdoors), and references, to Jesse Boot, Nottingham. Letters unanswered within a week indicate vacancy filled.

QUALIFIED Assistant; accustomed to a good-class Suburban Retail and Dispensing business; aged about 25; must be a quick, neat, and accurate Dispenser and good Counterman, obliging, and of good address. Apply, enclosing carte, with full particulars as to salary, &c., to A. Blackbourn, 570 Moseley Road, Birmingham.

IMMEDIATELY.—Wanted, for a few weeks, a qualified Assistant, about 24, for Light Retail; one capable of taking charge during absence of principal; plenty of time for reading; comfortable rooms and attendance provided, but not board; good recommendations essential. Apply, 3 Victor Parade, College Park, Harrow Road, W.

WANTED, qualified Chemist (outdoors) to take charge of poisons, &c.; a good Counterman and Prescriber indispensable; hours 9 to 9, Wednesday 4 o'clock, Saturday 11 o'clock, no Sunday duty; state age, salary required, and all particulars; applications not answered in three days refused. Supply Stores Co. (Lim.), West Bromwich.

QUALIFIED married Assistants wanted for Cash businesses (Chemist's trade only) in town and country; permanent situations, with good prospects of promotion, to able, energetic, and trustworthy men. State salary required, outdoors, and full particulars, with photo, to Day's Southern Drug Company (Limited), 182 High Street, Southampton.

S.W.—Managing Assistant required for small Retail, with 8-roomed house, unfurnished; suit married man with small family; hours 8.30 till 9.30, Saturday 11; every alternate Sunday and one night week off. Apply, stating usual particulars and salary required, to 126/20, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

SITUATIONS OPEN—Cont.

WANTED, a smart, active Assistant, of good appearance and address, aged about 24; time for evening class: comfortable home. Apply to Mitchell Parker, The Modern Pharmacy, Crouch End, London, N.

UP-TO-DATE Assistant wanted, principally to attend Advertising Department, Newspapers and Handbills, must be well up in the latter; spare time can be utilised at front counter. Apply, first instance (enclosing proofs of work done), to Drug Stores, Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C.

FIRST week in July (indoors), smart Junior, not under 22, with experience of first-class Cash trade; good Counterman and energetic Salesman; liberal and progressive salary to suitable hand seeking permanency. Apply, enclosing carte (if convenient), stating fullest particulars, to L., 8 Norfolk Road, St. John's Wood, N.W.

QUALIFIED Assistant wanted; must be young, energetic, and capable eventually of taking charge of a Branch where brisk business is done; no Sunday duty; full half-holiday weekly; state particulars of age, salary required (outdoors), and experience, and send photo if possible; letters unanswered within a week indicate vacancy filled. Address, Jesse Boot, Nottingham.

A JUNIOR Assistant (outdoors), of gentlemanly appearance and address, for a select Branch Pharmacy under Manager, required the beginning of August for the season; an exceptional opportunity for a neat and accurate Dispenser requiring increased experience. Apply, giving references, stating weekly salary required, and enclosing photo (to be returned), to R. Hayton Davis, Pharmacist, High Harrogate.

WANTED, Manager, qualified, about 30, for Store trade, in large town near Manchester; salary 45s. per week to suitable person; good counterman indispensable; must be active and obliging and of good address; only those seeking a permanency treated with; state age, height, experience, and enclose carte, character, and ability; must stand strictest investigation. Apply, J. M., Goodall, Backhouse & Co., White Horse Street, Leeds.

SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

See Notice on front page of this Supplement.

LOCUM-TENENS; now disengaged. J. H., 13 Arthur Street, Gloucester.

JUNIOR; 20½; 6½ years' experience; good references. Peace, 81 South Street, Rochdale.

IMPROVER; 18; good reference. Apply, J. Lewis, Brynglas Villa, Cadoxton, Cardiff.

PART-TIME Assistant; 23; tall; good reference. Good, 390 Walworth Road, S.E.

TEMPORARY Manager or Senior; qualified. "Locum," 18 Madoc Street, Llandudno.

ASSISTANT; 24; in or out; unqualified; 5 ft. 10 in.; Extractor. Avison, Dukinfield.

IMPROVER; 2 years' experience; abstainer. 'Rhei," c/o R. Inglis, Chemist, Todmorden.

PART-TIME; outdoors; good Dispenser and Bookkeeper. M., 2 Barnsbury Road, N.

JUNIOR; 20½; good experience and references. Nunn, c/o Russell & Co., Chemists, Windsor.

ASSISTANT; qualified; 25; London experience; outdoors. "Chemist," 33 Howe Street, Carlisle.

LOCUM; registered; disengaged; aged 40; good reference. F. G. Shrimpton, Grove Street, Oxford.

LOCUM or Manager; Minor; references; in or outdoors. Morgan, Bedford Street, Hereford.

AS Assistant; aged 22; small agricultural town preferred. "Bismuth," 61 Tything, Worcester.

AS Assistant or Manager; aged 31; West-end experience. "Chem.," Abergwili, Carmarthen.

LOCUM-TENENS; qualified; disengaged. Jelley, 4 Buckingham Street, Fitzroy Square, W.

TRAVELLER.—Energetic Englishman, with thorough knowledge of markets, purposes covering systematically Switzerland and France, is open to represent a few first-class firms. Address, with particulars, "Geneva," c/o Street's, 30 Cornhill, E.C.

JUNIOR or Dispenser (Surgeon's); 21; time for class. "Statim," 121 Farringdon Road, E.C.

ASSISTANT; qualified; 26; disengaged. T., c/o Mr. Halpin, Parkgate Road, Neston, Cheshire.

AS Assistant (20) with time for study; good Dispensing experience. Y. Z., 30 King Street, Carmarthen.

BRANCH Manager; 31; competent; married; Prescriber, Extractor. "Ricini," 22 Gem Street, Birmingham.

TEMPORARY; qualified; reliable; disengaged. Andrews, 3 Percy Villas, West Avenue Road, Walthamstow.

QUALIFIED Assistant (outdoors); disengaged; first-class experience; aged 23. Rees, jun., Chemist, Llandilo.

ASSISTANT; aged 27; Minor qualification and good experience. "Chemist," Magdalene Street, Eye, Suffolk.

QUALIFIED; first-class experience; well recommended; Manager or Assistant. J., 114 Farringdon Road, W.C.

SENIOR or Locum-tenens; 27; Provincial, West-end, and Continental experience. H. Harris, Blyborough, Kirton Lindsey.

MANAGER, Assistant, or Locum; good experience; references; 30. Reed, c/o Mr. Jackson, Chemist, Bridlington Quay.

JUNIOR; 21; height 5 ft. 7 in.; good references; 7 years' experience. Goodlass, 13 William Street, Horton Lane, Bradford.

JUNIOR; aged 20; 4 years' experience; good references. 126,4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; Wholesale or Manufactory preferred; 30. W. H., c/o Wright, Layman & Umney, Southwark, London.

BRANCH Manager or Assistant; qualified; 23; disengaged. "Chemist," Richmond Place, Portgordon, Banffshire.

LOCUM-TENENS (qualified, reliable, experienced) requires engagements. "Verum," 116 Elm Road, Kingston-on-Thames.

WANTED, a position of trust in a Wholesale house; reliable references. Reply, J. Browne, 5 Broadway, Barking, Essex.

LOCUM or Branch Manager; qualified; 27; disengaged; 11 years' experience; good references. H., 13 Peter Street, Yeovil.

ASSISTANT; 26; unqualified; London and country experience; good references. Davies, 3 Gloucester Road, Holloway, N.

MANAGER or Assistant; qualified; married; aged 40; thoroughly experienced; disengaged. Y. Z., 26 High Street, Abergavenny.

TRAVELLER, calling on Chemists and Stores in London, open for another commission. "Alpha," 10 Linnell Road, Camberwell, S.E.

JUNIOR; 21½; 7½ years' experience; in or near Birmingham; Stores preferred. E. H., 89 Montgomery Street, Sparkbrook, Birmingham.

JUNIOR or Improver; 19; well recommended; seaside or large country town. Valliet, 1 Victoria Villas, High Road, Gunnersbury, London, W.

YOUTH (18) desires situation in Wholesale or Pill-room; experienced; highest references. Bennett, 20A, Peabody Buildings, Essex Road, N.

JUNIOR (21), 5 years' experience, seeks Summer engagement; seaside preferred; disengaged July 11th. Payne, 350 High Street, Chatham.

ASSISTANT, Locum, or permanent; Kent coast; disengaged; tall; good Dispenser. S., 1 Merlin Cottage, Ethelbert Gardens, Margate.

EVENING work; Minor student; outdoors; good experience; Chemist or Doctor; London preferred. Hillside, Aleombe, Dunster, Taunton.

TEMPORARY or Permanent; married; qualified; outdoors; good experience. 126,18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE; Junior; Wet or Dry Counter; 20½; 3 years' experience; excellent references. "Chemiens," 45 Burley Lodge Terrace, Leeds.

SITUATIONS WANTED—Cont.

MANAGER or Locum-Tenens; view to succession or otherwise; 38; disengaged July 9. "Minor," 88 Chalk Farm Road, N.W.

MANAGER or Senior; qualified; 36; high-class experience; ordinary or cash trade. Irving, c/o Reveley, Stationer, Acre Lane, Brixton.

LOCUM or Permanent; varied experience, energetic, and trustworthy; good references; disengaged 30th inst. Address, "Registered," 58 York Road, S.E.

YOUNG Man (7 years' experience) seeks evening employment as Pill Maker and Coater. Address, A. W. G., 97 Winchester Street, Caledonian Road, N.

JUNIOR: 22; London; 7 years' good experience, London and Provinces; disengaged July 11. Saunders, 125 St. John's Hill, New Wandsworth, S.W.

WHOLESALE.—A Minor man requires a situation in Laboratory as Assistant; aged 22; good references. W. H. Humfrey, Slewings, Hornchurch, Essex.

PART-TIME; as Assistant (outdoors) in large town; 8 A.M. to 6 P.M.; good Dispenser and Extractor. "Beta," Rose Cottage, Yew Tree Road, Kidderminster.

WEST End and Store experience; highest references; aged 25; outdoors; understands Homœopathy. Clements, 145 St. John's Hill, Clapham Junction, S.W.

FRENCH Assistant, aged 30, speaks English and German; 12 years' London and continental experience; highest references; disengaged. F. S., 42 Rue le Peletier, Paris.

TRAVELLER; Drug or allied trades; young, smart, educated; references; security. "Midlands," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

RE-ENGAGEMENT, second week in July, permanent or as Locum; first-class London and provincial experience; height 5 ft. 8½ in.; aged 28. B. J., 1 High Street, Margate.

J. HADLEY, Minster, Thanet, recommends his Branch Manager for similar position; would accept temporary sole charge; qualified. Address, Hadley, Chemist, Minster, Thanet.

TO manage Branch; disengaged; married; qualified; Extractor, Prescriber; agricultural and town trade; aged 41. "Chemicus," 6 Summerhall Terrace, Pateley Bridge, Leeds.

ASSISTANT or Manager; outdoors; 30; unqualified; good Dispenser, Extractor, and knowledge of Photography and Electrical Apparatus. W., 7 Yew Tree Road, Kidderminster.

JUNIOR; 20½; 3½ years' experience; London or Liverpool, with facilities for attending lectures; middle or end of July; abstainer; reference. Edwards, Bryn, near Corwen, N. Wales.

WHOLESALE; experienced as Wet, Dry, Export Counterman, or outdoor Retail or Perfumery trade; highest references; disengaged; town preferred. S., 113 Ferndale Road, Clapham.

TRAVELLER calling on Chemists, Mineral Water Makers, &c., requires re-engagement; good connection town and country. 42/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A LEADING position wanted by a competent Chemist with commercial knowledge and 13 years' experience in factory; best references. Offers to G. P., 1,575, c/o Otto Maas, Advertising Agency, Vienna, I.1.

IMPROVER or Junior; indoors; of temperate habits; moderate salary; unqualified; good reference; aged 26; height 5 ft. 6 in.; disengaged July 6. "Statim," 75 Cavendish Road, Mill Road, Cambridge.

QUALIFIED Chemist, 30 years' first-class experience, good Extractor and Prescriber, married, seeks a permanent engagement as Manager or Locum; disengaged July 7. "Oxford," Westbar Dispensary, Sheffield.

TRAVELLER; experienced, with large connection in town and country; thoroughly understands all branches of the trade; first-class house only. 125/39, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A GENTLEMAN representing first-class drug house, and having a large connection in the S. and W. of England, would be glad to treat with one or two good houses with a view to represent them, either on commission or otherwise. "Rhel," Morris's Library, Dunsmure Road, Stamford Hill, N.

TO WHOLESALE DRUGGISTS.

AS Wet Counterman, Town Traveller, or position of trust; aged 28; highest references; Wholesale and Retail experience; disengaged. R. B., 21 Denver Road, Amhurst Park, N.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

See Notice on front page of this Supplement.

A CHEMICAL Factory in Austria-Hungary, well-introduced, wants the General Agency of qualified foreign firms in the same branch. Address, H. O. 1594, care of Otto Maass' Advertising Agency, Vienna I. 1.

A MERCHANT who visits the East twice a year and calls on the Chemists and Druggists, is open to represent, on commission, some good manufacturers desirous of forming direct connections with Turkey, Greece, Egypt, and Syria. Please address, P 806, c/o Rudolf Mosse, Vienna, Austria.

CHEMISTS' AND DRUGGISTS' Fittings; cheapest house in the trade; glass-fronted counters, chemists' cases, wall-cases, dispensing-screens, sponge-cases, nests of drawers, glass labels, upright cases with desks, and chemists' fittings complete; estimates in town or country; the trade supplied. H. Mills, Shop Fitter, 203 City Road, London, E.C.

A GENTLEMAN, travelling all Ireland, taking the journey every three months, calling on Wholesale Druggists and Chemists, and Family Grocers, is open to treat with an A1 Manufacturer who wishes to boom trade in Ireland. Apply to "Druggist," c/o Eason & Son (Limited), Advertising Agents, Dublin.

A GENTLEMAN, experienced in composing and bringing out Pamphlets, Handbills, and Newspaper Advertisements, &c., seeks a few more clients; thoroughly conversant with Medical and Pharmaceutical matters, canvassing and all work incidental to pushing your preparations undertaken; results always satisfactory. Field, Regent Villa, Regent Street, Cheltenham.

HARVEY'S SOVEREIGN CURE COMPANY are now prepared to appoint Chemists (only) as sole local Agents for this reliable Stomach, Liver, and Kidney remedy; please note that amongst advantages offered—*No Cutting, Liberal Terms, Trade Interests zealously guarded.* Full particulars on receipt of postcard to Secretary, 18 Featherstone Buildings, London, W.C.

TO BE SOLD IMMEDIATELY.

THE whole of the Fittings of 4 first-class Chemists' shops, including 6 excellent ranges of solid mahogany drawers, cut knobs, bevelled edge labels, with lockers and shelving to match, solid mahogany dispensing-screen, with bevelled mirror in centre, sponge-case at bottom; 6 massive mahogany counters, wall-cases, counter-cases, and desks, latest designs; all in splendid condition. Shops fitted up by most experienced men in all parts of the country. Edwards & Co., Chemists' Fitters, 106 Whitechapel, Liverpool. Write for references.

D. W. BARDILL & COMPANY (LIMITED).

NOTICE is hereby given, that the Creditors of the above-named Company are required, on or before the 4th day of August, 1894, to send their Names and Addresses and the Particulars of their Debts or Claims, and the Names and Addresses of their Solicitors (if any), to THOMAS HENRY HARRISON, of the Wardwick, Derby, Chartered Accountant, one of the Liquidators of the said Company, and, if so required, by notice in writing from the said Liquidators, are, by their Solicitors, to come in and prove their said Debts or Claims, at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distribution made before such Debts are proved. Dated this 18th day of June, 1894.

ROBOTHAM, ATTWOOD & ROBOTHAM,
3 St. Mary's Gate, Derby,
Solicitors for the above-named Thomas Henry Harrison and William Hart, the Liquidators of the said Company.

"THE CHEMIST AND DRUGGIST" SERIES

Which all Chemists ought to have and to read as faithfully as their British Pharmacopœia, viz.:—

THE ART OF DISPENSING.
3s. 6d., by post 3s. 10d.

HANDY BOOK OF MEDICINE STAMP DUTY.
2s. 6d., by post 2s. 9d.
By E. N. ALPE, Solicitor's Department, Board of Inland Revenue (with Supplement expounding the Law and Practice to date).

MANUAL OF PHARMACEUTICAL TESTING.
2s. 6d., by post 2s. 9d.
By BARNARD S. PROCTOR, F.I.C.

VETERINARY COUNTER PRACTICE.
3s. 6d., by post 3s. 9d.

Published at the Offices of "THE CHEMIST AND DRUGGIST."
LONDON AND MELBOURNE.

THE

SUMMER NUMBER

OF

THE CHEMIST & DRUGGIST

July 28th, 1894,

Will contain many specially interesting features, and will be unusually Attractive in many respects. It will be circulated to

ELEVEN THOUSAND

Of the Principal Buyers of Druggists' Goods in

The United Kingdom, the Australasian Colonies, Canada, South Africa, the European Continent, India, China, Japan, South America, and the West Indies.

PRICE LISTS AND CIRCULARS INSERTED.

Terms and Tariff for Advertisements may be obtained on application to

THE PUBLISHER, 42 CANNON ST., LONDON, E.C.

VOLUME 44

OF THE CHEMIST AND DRUGGIST is completed this day (June 30, 1894). It contains over 900 pages, crowded with information of interest and use to Pharmacists, and Chemists are invited to send for this week's issue (4*d.* post free) and look through the Index which is published with it. They will hardly fail to find references in it to many matters of importance to them in their business.

We append the titles of a few of the papers which have been published in this volume, taken at random from the mass. Any back number can be purchased, so long as it is in print, for 4*d.*

Notes on New Synthetic Remedies (6 January).

Reminiscences of the late Professor Bentley, and Portrait (6 January).

The Discoverers of Chloroform (6 January).

Irish Pharmaceutical Examinations: The Official Visitor's Report (13 January).

Interview with Mrs. Anna Ruppert, and Portrait (20 January).

List of One Hundred and Twenty-Four New Synthetic Remedies (20 January).

Institute of Chemistry Examination Questions (20 January).

The Pharmaceutical Council of Great Britain: Sketch and Portraits (27 January).

The Chemistry of Anarchy: a Story by Robert Barr (Luke Sharp), (27 January).

Hints on Advertising for Retail Chemists (27 January).

New Galenical Preparations (27 January).

All about Sponges (27 January).

Pharmacology: its Relation to Chemistry (3 February)

Pharmacy Act Prosecution: Photographic Chemicals (10 February).

Professor Attfield on an Imperial British Pharmacopœia (17 February).

Notes on the Preservation of Infusions (24 February).

Standard of Purity of Saffron (24 February).

Reproduction of Photographs of *Tit-Bits* Shop-window Displays (24 February)

The New Swiss Pharmacopœia (24 February).

Scheduling Carbolic Acid: Question in the House of Commons (3 March).

History of Œsypum and Lanoline (10 March).

About Castoreum (10 March).

How to Advertise Liver-pills (10 and 24 March, 21 April).

Dispensing Percentage Prescriptions (17 March).

Coca-Cultivation, by Clements Markham, F.R.S. (17 March).

New Galenical Preparations (31 March).

Pomade and Perfume Formulæ (31 March).

Liquor Pepsinæ Formula (31 March).

Six Months in a French Pharmacy (21 April).

The Preparation of Linimentum Saponis (28 April).

Rectified Spirit and Coffey's Still, Illustrated (28 April).

Notes on Extract of Aconite (28 April).

Chemists and the Spirit-tax: Views of a Wholesale Druggist (28 April).

Illustrated Article on Beeswax-bleaching in America (28 April).

A Simple and Ingenious Mode for Automatic Disinfection in Cisterns, by B. S. Proctor (28 April).

Ammonia-mixture Formula for Producing Ice (28 April).

Annual Report of the Pharmaceutical Council of Great Britain (5 May).

Exhaustive Notes, with Illustrations, on Photographic Specialities for Chemists (12 May).

Rhymes on Pharmacopœia Preparations (19 and 26 May).

The Analysis of St. Jacob's Oil (19 May).

Regulations and Rules for Dispensers at the Army and Navy Co-operative Society, Limited (19 May).

Full Report of the Annual Meeting and Dinner of the Pharmaceutical Society of Great Britain (1 May).

Results of the Election of the Pharmaceutical Council (26 May).

Formula for Erasmus Wilson's Hair-lotion (26 May).

Names, Symbols, and Atomic Weights of Chief Elements mentioned in the British Pharmacopœia (2 June).

Analysis of Poisoning Cases in 1892 (2 June).

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Illustrated Description of Apparatus for Making Lozenges on a Small Scale (2 June).

Interviews with Wholesale Homœopathic Chemists on the Medicine-stamp Duty (9 June).

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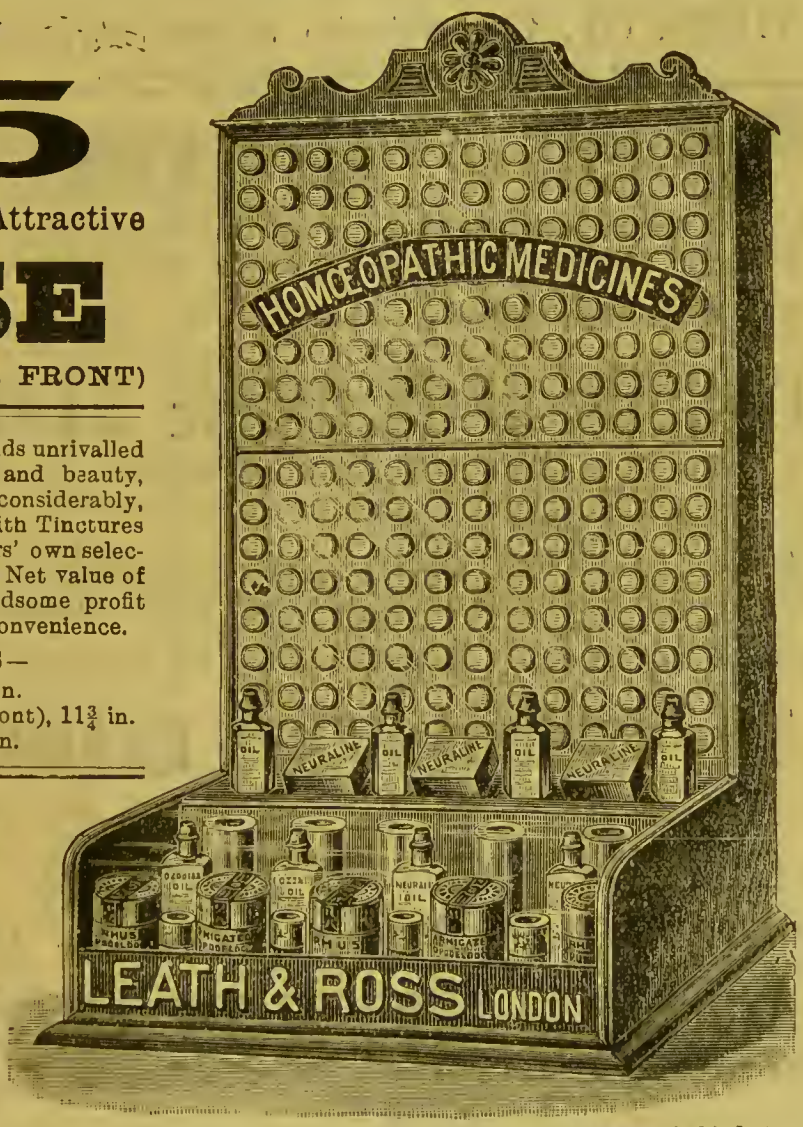

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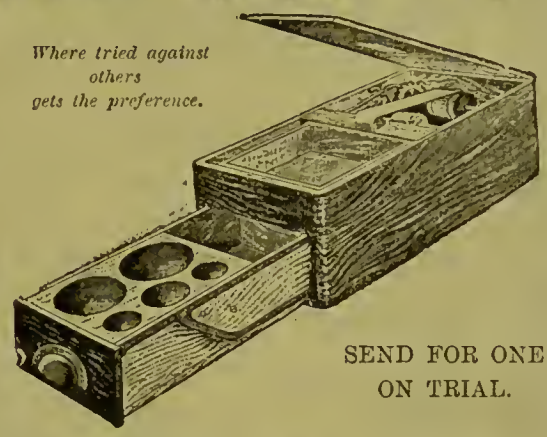

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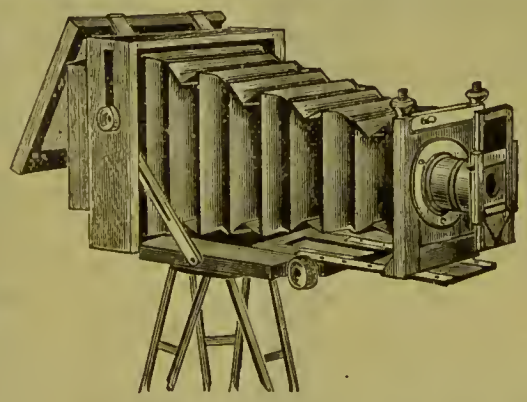

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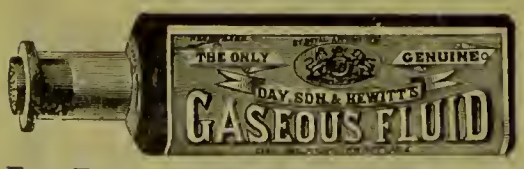

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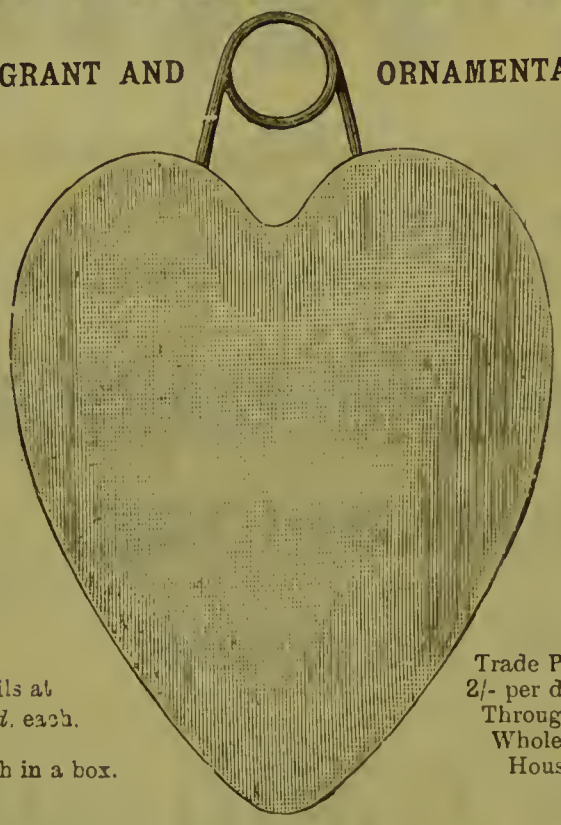

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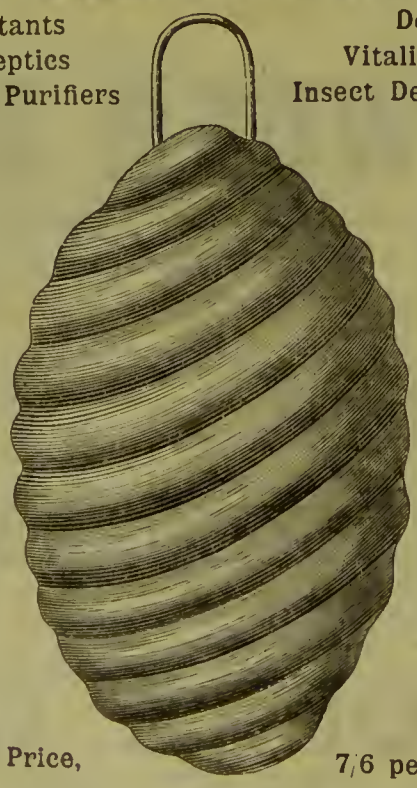

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1 0	Shilling " " "	7 0 "
3 6	½-gall. Iron Drums (drums included)	2 6 each
6 0	1-gall. Drums " "	4 6 "
11 6	2-gall. " " "	8 6 "
28 6	5-gall. " " "	20 0 "
55 0	10-gall. " " "	38 6 "
Per gall.		
5 0	20 & 40 gallon Casks (casks free, not returnable)	3 6 per gall.
1 1½	UNIVERSAL PERFECT PURIFIER (in bottles)	8 6 per doz.

Sanitary Powder.

1 0	each Canisters, in boxes of 1, 2, or 3 doz.	7 0 per doz.
0 6	" " " " "	4 0 "

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2 6	"Sublime Toilet" (Unscented), 6 Tablets	21 0 "
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1 0	Shaving Stick, in Cardboard Box	8 0 per doz.
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1 0	" " " Metal Box	7 0 "
2 0	Dentifrice Water, in Bottles, with Sprinkler	15 0 "
1 0	Lano-creolin, 5 % Antiseptic, in Tubes	9 0 "
3 0	" " " Large Tubes	24 0 "
6 0	" " " 1-lb. Jars	48 0 "
1 6	Antiseptic Ointment, 10% Antiseptic, in China Pot	12 0 "
0 9	" " 20% Antiseptic, in Metal Box	6 0 "
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Literature.

"Medical Register," 1892; "Chemists' Register," 1891; "Dentists' Register," 1891; clean, cheap, offer? Griffith, Chemist, Shepton Mallet.

"Year Books of Pharmacy," 1874 to 1885, 12 numbers; "British Pharmacopœia," 1867, with additions; "Squire's Companion," 1863, seventh edition. Offers to Wilson, Chemist, Stoke-on-Trent.

Immediate sale.—What offers? *Pharmaceutical Journal*, from commencement till present date; bound volumes, July, 1841, to June, 1875; unbound, to June, 1894; missing, vol. xv., 1855, and five numbers, August 7 and 14, 1880, April 16, 1881, November 25, 1882, December 20, 1884. Blackshaw, Burslem.

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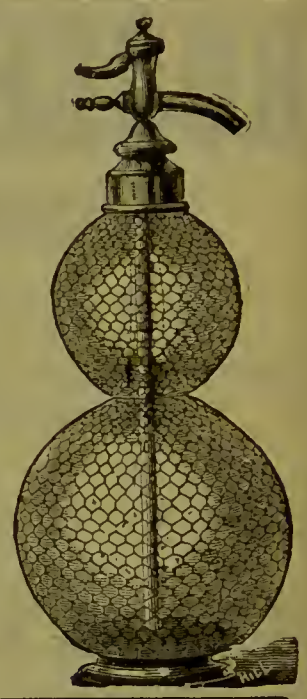

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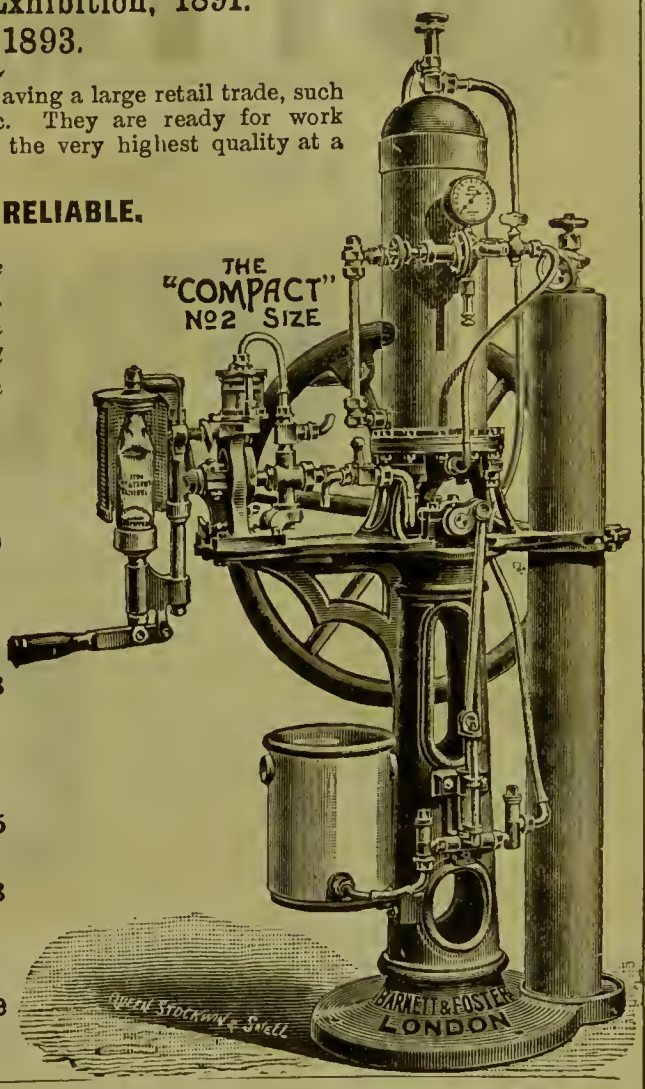

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IMPORTERS OF SPECIAL WINES FOR INVALIDS,

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An entire Diet for Infants, Children, and Invalids.

"Renders valuable assistance in Wasting Fever."
"Beneficial as a Diet in Severe Cases of Typhoid."
"Invaluable in Cholera Infantum."

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1A	"	..	11d.
2	"	..	1/-
3	"	..	1/2
4	"	..	1/4
5	"	..	1/7
6	"	..	1/10

DUTY PAID PRICES.

CARRIAGE PAID on 60 lbs. and upwards for NETT CASH.

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CEYLON SIFTINGS.

MATCHLESS LIQUOR

To Retail at 1/4.

Nett Wholesale Price

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DUTY PAID AND CARRIAGE PAID

Handbills, Window Bills, Bags, &c., supplied.

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TOWER TEA

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PRIZE MEDAL, PARIS, 1889.

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BY ROYAL LETTERS PATENT.

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(Not Medicine, but Food).

The New Table Salt "Cerebos" contains the concentrated Food strength (Phosphates, etc)., of bran, which is required to form the actual substance of the Bones, Brain and Nerves, but which is absent from White Bread.

The "Cerebos" Nutritive Table Salt is used instead of the common salt for every purpose; at table, and in salting bread, puddings, soups, stews, etc. In this way all the valuable constituents of the grain are restored for the use of the system.

Now the use of "Cerebos" Salt in the food, instead of the common salt, "will generally obviate the necessity for giving chemical food, as it contains the most important constituents of it, and it is obviously a much more natural and rational way of supplying the deficiency of the necessary substance, than allowing the health to suffer through the gradual deprivation of them, and then supplying them by dosing with chemical food."—*See Medical Reports.*

The above show the proportion of Phosphates in Bran and White Flour. White Bread Salted with "Cerebos," instead of common salt, equals Wholemeal Bread.

Prices: 1d., 6d., and 1s.

Full Particulars and Samples Free. (Correspondence invited).

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CRAWSHAW'S CRYSTAL DYES

1d. 3d. 6d.

Specially Manufactured for Domestic use, carefully and scientifically MORDANTED. Sell well and give perfect satisfaction wherever introduced.

CRAWSHAW'S GOLD PAINT.

6d. 1/- 1/6 2/6

This Gold Paint is of the very finest quality, and answers admirably for gilding or regilding Carvings, Picture Frames, Plaster Figures, &c.

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6d. 1/- 2/6 per Bottle.

AND IN BULK.

The most perfect of Butter Colourings, without Taste, without Smell, very highly concentrated, and perfect in Tint!

FROM ALL THE WHOLESALE HOUSES.

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COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road, } LONDON.

ESTABLISHED OVER 200 YEARS.

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PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

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Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

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Most Delicious Sauce in the World. Bottles, 6*d.*, 1*s.*, & 2*s.* each.

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Essence of Beef	Meat Juice
Essence of Chicken	Malted Food for Infants
Essence of Veal	Extract of Malt
Essence of Mutton	"O.K." Bouillon
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Manufacturers of the Finest Steam-made

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Will send you a sample of their Extract of Beef, full particulars, and specimens of attractive Advertising matter on application.

No Burnt Taste or Chemical Flavour.

Compare it with other Brands. You will appreciate the difference.

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A Silk Hat needs constant attention, and you cannot do this with a brush alone, but you have got to apply heat to it to effectually lay the nap, and impart a gloss. You can do it in the time it would take you to make a trip to your hatter's.

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Sample, 3 stamps extra.

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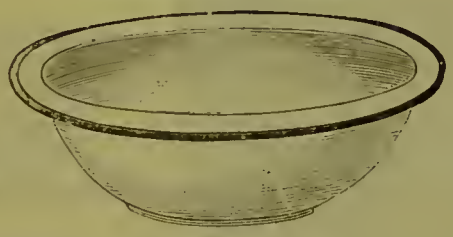

10-inch.	12-inch.	13-inch.	15-inch.
8/-	9/-	9/9	14/3

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We also manufacture Oval Tubs, Round and Oval Waiters, Flower Pot Vases, Crumb Trays and Brushes, &c., and for 10/-, 20/-, 40/-, will send sample lots well assorted.

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WORLD-RENOWNED
FILTERS

Patent Removable Plate.

A success unparalleled by any other Filter in existence.

This Filter has made its way into the most remote parts of Globe.

Nos.	A	B	C	D	E	F	G	H	I	J
Galls.	½	1½	2½	3½	5	6	7	12	19	27

CHEAVIN'S

Lowest Prices and Discount guaranteed.

"PINNACLE" SOAP STAND.

It is made of the best rubber, in three shapes, to fit any soap-dish, or can be used on lavatory-slab or bath without dish.

Each in a box, 6/- per dozen.

All Wholesale Druggists will supply.

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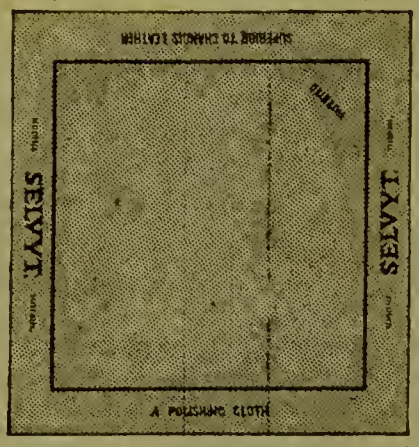
(REGISTERED TRADE MARK.)



It is a most wonderful fabric. Woven into squares the size of an ordinary duster, and in its natural condition, undyed and without any admixture or saturation, the cloth is possessed of remarkable properties, imparting with ease and rapidity a brilliant and lasting polish to Silver, Gold, Glass, Metals, Furniture, Patent Leather, and everything in general use for which wash-leathers would be required.

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Size in inches ..	10½ × 10½	14 × 14	17½ × 14
Net price per doz...	2/9	3/11	5/3
		D	E
Size in inches..		21 × 17½	21 × 20
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THE MODERN STOVE POLISH,

Is a paste, and always ready for use. It requires no mixing, is absolutely free from dust, and retains its Jet Lustre any length of time.

Put up in two sizes only, as under :—

Tins, large size .. .. .. per gross, 20/-
" small " 9/-

20,000 Gross passed through our books in a few months.

Mockler's Patent

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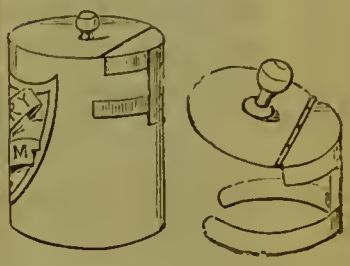

In 3 sizes ...	Nos. 1	2	3
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Extra Quality, Silvered Knob ...	11/-	12/-	13/-

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100-Bar Cases..	25/-
60-Bar Cases	15/-
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'LIGHTNING' FREEZERS

Every size in Stock, from 1 quart at 6/-, to 32-quart, with flywheel, at 100/-.

All inside Parts covered with Pure Block Tin.

Pails made of Best Virginia White Cedar, with Electric-welded Wire Hoops.

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Mills & Co. (Bourne)
Oberbrunnen
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Morris & Callard | Moss & Co.
Smith, T. & H., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHEST PROTCTRS
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Pattison, G.
Schutze & Co. | Solport Bros.
Wood, Vincent

CHLOR. OF LIME
Government Sanitary Co.
Hebden, W. C.
National Chemical Co.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)
Freeman, R. (Exors)
Towle, A. P., & Son

CHLOROFORM,
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co.

COCA WINE
Armbrecht, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.
Stephen Smith & Co. (Hale

COCAINE-HYDRO.
Howards & Sons

COFFEE
Allen & Hanburys (Essence)

COLAPSIBL TUBES
Betts & Co.

COD-LIVER OIL
Allen & Hanburys
Bleasdale & Co.
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Oppenheimer, Sons & Co., Lim.
Richardson, J., & Co., Lim.
Robinson & Co.
Smith, T. & H., & Co.
Stearns, F., & Co.
Woolley, Sons & Co
Wright, Layman & Umney

COMP. MEDICINS
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard & Co.
Parke, Davis & Co.
Richardson, J., & Co., Lim.

CONCENT. LIQRS.
Baiss Bros., & Co.
Cooper & Co.
Fletcher, Fletcher & Stevenson
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.

CORN CURES
Gardner, C.
Pattison, G. | Solport Bros.

COTTON WOOL
Haynes, G., & Co. (Absorbent)
Lindner & Co.
Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRSHD LINSEED
Morgan, G. H.
Mumford, G. S.
Sizer Bros.

DENTIFRICES
Beecham, T.
Bronnley, H., & Co.
Hanson, O.
Jewsbury & Brows
Lakeman, J. J.
Roberishaw, H. A., & Co
Sutton, O., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)

DENTISTRY
Stevens, P. A.

DISINFECTANTS
Barclay & Sons, Lim.
Beedzler & Co.
Dussek Bros. & Co.
Elephant Disinfectant Co.
Hebden, W. C.
Government Sanitary Co.
Isal
Jeyes' Sanitary Compounds Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Odams' Chemical Co., Lim.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co.
Wandsworth Chemical Works, Lim.

DOG MEDICINES
Spratt's Patent, Lim.

DRUGS
Allen, S., & Sons (Grinders)
Graf, F. | Hopf, R.
Morrison, R., & Co.
Richardson, J., & Co., Lim. (Grinders)

DRUGGISTS' SUN.
Ayrton & Saunders
Barclay & Sons, Lim.
Belden, E. & W.
Chemists' Association, Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Lim.
Hockin, Wilson & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Quelch, H. C.
Sanger & Sons | Schutze & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Wood, Vincent
Woodward, W. | Wooll, E.
Young, J.

DRYSALTERIES
Browning, J. H., & Co.

DYES, &c.
Crawshaw & Co.

EAU DE COLOGNE
Farina, J. M. | Muhlens, F.

ELECTRICAPPAR.
Darton, F., & Co.
Gent & Co.

EMBROCATION
Day & Sons
Elliman, Sons & Co.

ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Sanger & Son
Wood, Vincent

ENGRAVERS
Caspar & Co., Lim.
Corsan, J. R.

ESSENCES
Boulton, J., & Co. (Lim.)
Bratby & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
De Carle & Son
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Idris & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ESSENTIAL OILS
Allen, S., & Sons
Barrett, A. A.
Boehm, Fredk.
Brummerstaedt & Lüders
Bush, W. J., & Co.
Dodge & Olcott
Evans, Sons & Co. [Clarke
Hodgkinson, Treasure, &
Jackson, John, & Co.
Lambert, S., & Co.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Richards & Bert
Rylands, Dan, Lim.
Sozio & Andrioli
Spurway & Co.
Stevenson & Howell
Symes & Co.
Todd, A. M.
Treatt, R. C.
Warrick Bros
Widenmann, Broicher & Co.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

ETHYL CHLORIDE
Kuhn, B.

EUCALYPTUS
Downie B.I.P. Co.
Vaughland, Mackay & Baker

EXALGINE
Kuhn, B.

EXTRACT MEAT
Armour & Co.
Bovril, Lim.
Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

EXTRCTS, FLUID
Allen & Hanburys
Allen, G., & Co.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd T., Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Wright, Layman & Umney

EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kilner Bros.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Surrey Packing Co.
Youldon, E.

FILTERS
Fordham, W. B., & Sons, Lim.

FLY PAPERS
Buchan, D.
Ford, Shapland & Co.
Marshall, E.
Mather, W., Lim.
Slack, W., Exors.
Smith, J. H.
Strong, Christy
Tidman & Sons
Tunbridge & Wright

FOOD (Infants' & Invalid's
Allen & Hanburys
Benger's Food
Bovril, Lim.
Brand & Co.
Cerebos Salt Co., Lim.
Cuthbull, H. B.
Evans, Sons & Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liebig Co. | Lorimer & Co.
Mason, G., & Co. Lim
Mellin's Food | Nestlé, H.
Ridge, Dr. | Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.

FULLERS' EARTH
Fullers Mining Co., Lim.

GELATINES
Astley Cooper & Co.

GINGER ALE
Mills, R. M., & Co.
Ross & Sons (Lim.)

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co. Lim

GOLD-BEATERS' SKIN
Gates, T. & T

GOUT & RHEUMATIC CURE
Bromley, C.

GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)

HAIR PREP.
Bates, F. W.
Casene & Co.
Chesebrough Co.
Edwards & Co.
Truefitt, H. P., Lim.

HERB BEER EXTS
Jeesop, R. H., & Co.
Newball & Mason
Potter & Clarke
Schmidt, Karl
Smith, J. H.

HOMŒOPATHIC
Epps, James, & Co., Lim.
Ksene & Ashwell
Leath & Ross
Watson & Wates

HYPOPHOSPHITES
Duncan Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.

INHALERS
Burroughs, Wellcome & Co
Hockin, Wilson & Co.
Toogood, W.

INK
Bewley & Draper, Lim.

INSECTICIDES
Barclay & Sons, Lim.
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell

IRON, REDUCED
Berger, Kahler & Co.

KETCHUP
Tyrer, P.

LARD
Ewen, J. & Sons

LEMON SQUASH
Kemp & Son

LIME JUICE
Evans, Sons & Co.
Lorimer & Co.

LINT
Lindner & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORICE
Dennis Di Luggo & Co. "Solazzi"

LIQUORS
Cooper & Co.
Fletcher, Fletcher & Stevenson
Oppenheimer, Son & Co., Lim.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
Warrick Bros

MACHINERY
Bennett, Sons & Shears (Lim.)
Burroughs, Wellcome & Co.
Carter, T. H.
Gardner, W.
Hockin, Wilson & Co.
Martin Perls & Co.
Pindar, J. W.
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lorimer & Co.
Washington Chemical Co

MALT EXTRCT, &c.
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co. (Kepler's)
Hearon, Squire & Francis
Leconte, Eugene
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Raimes & Co.
Raimes, Clark & Co.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Co.

MARKING INKS
Bond, John (Crystal Palace) (Ink and Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co.

MILK
Nestlé, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, Bertle, & Co.
Smith, T. & H., & Co.

OILS, PAINTS, VARNISHES, &c.
Browning, J. H., & Co.
Fox, W., & Sons
Matthews H., & Co.
Pinchin, Johnson & Co.

OINTMNT BASES
Burgess, E., jun.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim.

OPHTHALMIC
Pomies, E. (Powders)

OPIUM
Hopf, R.

OPTICIANS
Botwright & Grey
Darton, F., & Co.

OTTO OF ROSE
Warrick Bros.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.

PAT. MEDCNS, &c.
Anglo-American Drug Co. (Lim.) [Preserv.]
Atkinson & Barker (Infant
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Mackenzie, Dr. (Catarrh Cure)
May, Roberts & Co.
Newbery, F., & Sons
Roberts & Co. (Foreign)
Sutton, W., & Co.
Warner, H. H., & Co., Lim.
Wilson, A. (Bunter's Nervine)

PEPPERMINT OIL
Bush, W. J., & Co.
Ransom, W., & Son
Stevenson & Howell

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Fletcher, Fletcher & Stevenson
Newbery, F., & Sons (Ingluvin)
Stearns, F., & Co.
Stern, G. & G.
Warner & Co. (Ingluvin)

PAPAIN
Kuhn, B.

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F
Blyton, Astley & Co.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Bush, W. & J., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M. | Greensill & Son
Hovenden & Sons
Lanoline | Mulhens, F.
Newbery, F., & Sons (Bordoos
Pears', A. & F., Lim.
Potter & Clarke
Price's Patent Candle Co.
Sozio & Andrioli
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PEROX. OF HYDR.
May & Baker, Lim.
Robbins & Co.
Tyrer, T., & Co

PETROLEUM
Allen & Hanburys
Dee Oil Co., Lim.
Snowdon, Sons & Co.

PHARM. PREPS.
Allen & Hanburys
Armour & Co.
Baiss Bros.
Barron, Harveys & Co.
Bieber, J. D. | Boehm, Fredk.
Boehringer, C. F., & Sohns
Boulton, J., & Co. Lim
Bryce & Rumpff (Bromidia)
Burgoyne, Burbiuges & Co.
Burroughs, Wellcome & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles, Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Jeyes' Sanitary Compounds Co.
Lambert Pharmacal Co
Macfarlan, J. F., & Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co
Potter & Clarke
Richardson, John, & Co. (Leicester), Lim.
Roberts & Co. [Lim.
Smith, T. & H., & Co.
Squire & Sons
Sutton, W. & Co.
Symes & Co. | Tyrer, T., & Co.
Warner, H. H., & Co., Lim.
White, Alfred, & Sons
Woolley, Sons & Co.
Wyeth, Jno., & Bro.
Zimmermann, A. & M

PHOTOGRAPHIC
American Camera Co.
Barclay & Sons, Lim.
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Christy, T., & Co.
Darton, F., & Co. [Lim.
Eastman Photo Materials Co.
Fordham, W. B., & Sons, Lim.
Houghton, G., & Son
Howards & Sons (Unsmissable)
Kent, G. B. & Sons
Thornton-Pickard Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Zimmerman & Co.

PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer

PILLS (Coated, &c.)
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Bromley, C. (Gout & Rheu.)
Burgess, E., jun.
Carter's Little Liver Pills
Cox, Arthur H., & Co. (tastless)
Dr. Williams Medicine Co.
Duncan, Flockhart & Co
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son
Holloway's
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortone, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Richardson, J., & Co., Lim.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyeth J., & Bro.

PLASTERS
De St. Dalmas, A.
Evans, Sons & Co.
Johnson & Johnson, Lim
Leslies, Lim | Mather, W., Lim.
Seabury & Johnson

PODOPHYLIN
Richardson, W. A.
POISONS
Orchard, E. J. (Poisons)
POLISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
Lubszynski, H. & A.
PORCELAIN GDS
Toogood (E.c. Pots, rgist.)
POULTRY FOOD
Spratt's Patent, Lim.
PRICE LISTS
Edwards & Son
Evans, Sons & Co.
Fallowfield, J.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Sanger & Sons
PRINTING
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Silverlock, H.
Taylor Bros. | Townsend, J.
QUININE SALTS
Boehringer, C. F., & Sohns
Howards & Sons
Zimmermann, A. & M.
RENNET
Duncan, Flockhart & Co.
RUBBER GOODS
Maw, S., Son & Thompson
Victoria Rubber Co.
Wood, Vincent
SACCHARIN
Allen & Hanburys
Burroughs, Wellcome & Co.
SALICIN
Macfarlan & Co.
Smith T. & H., & Co.
SALICYLATES
Knoll & Co.
SALICYLIC ACID
Burgoyne, Burbidges & Co.
Kuhn, B.
Zimmermann, A. & M.
SALOL
Kuhn, B.
SARSAPARILLA
Wilkinson's
SAUCES, PICKLES
Goodall, Backhouse & Co.
Mason, G., & Co., Lim.
Tyrer, P.
SCIENTIFIC INSTRUMENTS
Darton & Co.
SEEDS
Potter & Clarke
Surrey Packing Co.
SCHOOLS, &c.
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Liverpool School of Pharmacy
London Homœopathic and Medical School
Manchester Col. of Pharmacy
Metropolitan Coll. of Pharmcy
Northern School of Pharmacy
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
The School of Pharmacy
Westminster College
SEIDLITZ PWDRS
Blyton, Astley & Co.
May Roberts & Co.
Hockin, Wilson & Co.
Hora & Co.
SELTZOGENES
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Geraut, E., & Co.
May, Roberts & Co.
SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)
SHEEP DIP
Fletcher, Bros. & Co.
Jeyes' Sanitary Compounds Co.
Ness & Co.
Odams' Chemical Co., Lim.
Quilbell Bros. [ratus)
Stephenson, G., & Sons (Appa-
Tomlinson & Hayward [Lim.
Wandsworth Chemical Works.
SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co. Howlett, S.
Josenns, r | Natali & Co.
Treble, G., & Son
SOAP
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie. (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Jeyes' Sanitary Compounds Co
Lorimer & Co.
Muhlens, F.
Pears, A. & F., Lim.
Tidman & Son
Wright, Layman & Umney
SODIUM PRXIDE.
Burton, W., & Sons
SPECTACLES
Botwright & Grey
Darton, F., & Co.
STARCH
Chancellor & Co. (Mack's
Critchley (Gloss) (Double)
SPONGES
Cresswell Bros. & Schmitz
Evans, Sons & Co.
Peterson, M., & Co.
STAMPS (RUBBER)
Hicklsson, J.
STOPPERS
Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Orchard, E. (Poison)
Stipendum Stopper Co., Lim.
STOVES
Clark, S., & Co., Lim.
SUGAR
Blyton, Astley & Co.
Fletcher, Fletcher & Stevenson
Gibson, R., & Sons
SUGAR OF MILK
Boehm, Fredk.
SULFONAL
Burroughs, Wellcome & Co
May & Baker, Lim.
SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Cocking, J. T.
Eschmann Bros. & Walsh
Haywood, J. H.
Krohne & Sesemann
Lindnsr & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Mather, W. Lim.
Maw, S., Son & Thompson
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co. Lim.
Robinson & Sons
Schutze, F., & Co
Statham, H., & Co.
Victoria Rubber Co.
Wood, Vincent
SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
Fordham, W. B., & Sons, Lim.
Idris & Co., Lim.
Kilner Bros. | Melin, C.
Rylands, Dan, Lim.
SYRUPS
Blyton, Astley & Co.
Cooper & Co.
Fletcher, Fletcher & Stevenson
Idris & Co., Lim. [(Liquors)
TABLETS
Blyton, Astley & Co. (Sulphur)
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim.
(Compressed)
TEA
Burroughs, Wellcome & Co.
(Tablolds)
Gt. Tower St. Tea Co.
Horniman, W. H. & F. J., & Co.,
Pearse & Meeking [Lim.
TEETHING PADS
Marriott, E., & Co.
THERMOMETERS
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.
TINCTURES
Bieber, J. D.
Evans, Sons & Co.
Hewlett, O. J., & Son
Parke, Davis & Co.
TOBACCO & CIGRS
Singleton & Cole (Lim.)
TOILET
Aspinall, E.
Allen & Hanburys (Chrisma)
Bates, F. W.
British Paper Co.
Burroughs, Wellcome & Co.
(Lanoline)
Dee Oil Co., Lim.
Hovenden & Sons
Quelch, H. C.
Truefitt, H. P., Lim.
TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Sutton, C., & Co. (Block)
Wilson, A. (Bunter's)
Woods, M. (Areca)
TRADE MARKS
Browne, T. B.
Trade Mark Society, Lim.
TRUSSES
Bailey, W. H., & Son
Evans, Sons & Co.
Haywood, J. H. | Wood, V.
URETHANE
Howards & Sons
Vaccine Association (Lymph)
VACCINATION
Vaccine Association (Lymph)
VALUERS & TRNSFR AGNTS
Andros & Co.
Berdoe & Co. | Brett, F. J.
Crocker, G. B., & Co.
Orridge & Co.
Tomlinson, Thos., & Son
VASELINE
Chesebrough Co.
VINEGAR
Champion & Co., Lim
Pott, R. & N.
VETERINARY
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In 26-oz. Bottles, **10/-** per doz.

Prepared with HOWARDS' Sulphate of Quinine.

The Chemist and Druggist says:—"Messrs. STEPHEN SMITH & Co., of Bow, E., are putting on the market an orange-quinine wine in wine-quart bottles. It is made according to the British Pharmacopœia, and they have sent us a sample, which we have examined critically. The orange-wine from which the preparation is made is of a pale-brown colour, good orange odour, and contains 7 per cent. of soluble matter other than quinine. This is mainly sugar. Its alcoholic strength we find to be equal to 25 per cent. proof spirit, or 11·8 per cent. by weight of alcohol, so that it is of the higher standard recognised by the Pharmacopœia. The alkaloidal value of the wine is also satisfactory. Three ounces of it yielded 2·3 grains of ether-soluble alkaloid, equal to 2·7 grains of sulphate of quinine, and allowing for experimental loss and the usual cinchonidine content (not extractable by ether) it will be seen that the wine has obtained not only the pharmacopœial *quantum*, but that it has lost little of it by tannic precipitation."

HIGH CLASS SHERRY, B.P., for Pharmaceutical purposes and Drinking, **6/6** per gall., 18/- per doz.
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CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

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AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION.**

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion it promotes assimilation, and it enters directly into the circulation with the food products.

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NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-); the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

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"ZYMINE" (Ext. Pancreatis Fairchild) is a dry powder, and contains all the ferments (Enzymes) of the pancreas in a very active form. Trypsin—which converts albumens (of Milk, Beef, Fish, Blood, &c.) into Peptone in neutral, alkaline, or slightly acid media; Amylopsin—a form of diastase which converts starches into dextrins and sugar; Steapsin—the emulsive ferment necessary to the assimilation of fats and oils; and, lastly, the Milk-curdling or Rennet ferment.

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"ZYMINE" "TABLOIDS," each containing 3 grs. of the pure Zymine, will be found a highly convenient form for regular administration while daily duties are being attended to.

COMPOUND "ZYMINE" "TABLOIDS" present Bismuth Subnitrate, so highly esteemed in allaying irritability of the alimentary tract, in combination with Pancreatic Extract and Ipecac., the latter acting as a stimulant of the intestinal digestion.

ZYMINISED SUPPOSITORIES (Milk and Meat) are exceedingly effective when it is necessary or advisable to rest the stomachic function. They are readily assimilated, and cause no irritation in the rectum.

THE ABOVE ARE SUPPLIED TO THE TRADE AS FOLLOW—

	Per doz.
"Zymine" (Ext. Pancreatis) ½-oz. bottles	20/0
" " 1-oz. "	60/0
"Zymine" Peptonising Powders, 1 doz. tubes in box	14/0
"Zymine" Tabloids, 25 in bottle	18/0
" " 100 "	48/0
"Zymine" Comp. "Tabloids," 25 in bottle	18/0
" " " 100 "	48/0
Trypsin (Pure), 1-drachm bottles	54/0
Meat and Milk Suppositories, 12 in a box	22/0

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